

U.S. GENERAL ACCOUNTING OFFICE WASHINGTON, D.C. 20548

ELMER B. STAATS, Comptroller General ROBERT F. KELLER, Deputy Comptroller General CLERIO P. PIN, Director, Management Services

LC Card No. 77-82436 GPO Stock Number 020-000-00151-8

Contents

Citation Section

PAGE

How Do Federal Efforts Affect Energy Conservation Actions?	1
What Are the Problems and Potential Solutions Associated with Making Nuclear Fission a	7
What Will Be the Role of Fossil Fuels in Meeting Future Energy Needs?	17
How Do Financial Incentives, Tax Policies, and Regulatory Policies Affect Energy Supply Actions?	22
How Can the Executive Branch Organization and Processes for Dealing with Energy Problems Be Improved?	38
What Are the Prospects for Transition to Essentially Renewable Energy Resources (Geothermal, Solar, Fusion)?	47
Is the Federal Government Wisely Exercising Trusteeship over Energy Sources on Federal Lands?	50
Do our Domestic and International Energy Policies Adequately Reflect the Domestic and International Energy Situations?	56

Appendix Section

APPENDIX 1	
Federal Program Evaluations on Energy	 61
APPENDIX 2	
Requirements for Recurring Reports to the Congress on Energy	 63
APPENDIX 3	
Federal Information Sources and Systems on Energy	 73
APPENDIX 4	
Major Energy Legislation	 115

Index Section

Subject Index	117
Agency/Organization Index	169
Law/Authority Index	181
Congressional Index	203

Introduction

The Energy Digest, the first in a series of plenned topical digests, brings together all of the available unrestricted documents on energy-related matters that GAO has issued from July 1972 through March 1977. For the most part, this publication was derived from computerized GAO data bases.

Designed to serve as a desix reference, the Energy Diges contains over 200 audit reports, special tudies, letters, presents, and teatmore, Topics covered induce energy conservation, nuclear fasion, forsifi tietis, Federal Timencial Incentives, regulatory maters, executive branch energy organization and destionmaining, receivable resources, and the call ands, and conservation and energy policies. Also Included in the eppendices are partitionent references from GMO's Congressional Sourcebook Street.

HOW TO USE THE ENERGY DIGEST

The Digest is organized into three sections: a CITATION section, an APPENDIX section, and an INDEX section.

Citation Section

The CITATION section consists of thrief descriptions of the documents, arranged under broads abject exports for any subvorting. Gets the Table of Contents for a billing of the subject categories. More any clattors incorporate informative abstracts. Some or all of the following finformation is contained in each clattors incorporate informative abstracts. Some or all of the following finformation is contained in each clattors incorporate informative abstracts. Some or all of the following findomation is contained in each clattors excession number, tilds, document number, dets, pegnetiston, type of document, addresses, author/witness, agency/organization, corgenesional relevance, law or statutory authorities related to the document, and an authora. A sample entry is shown immediately preaching the CTATION section.

Appendix Section

This section contains four appendices, Appendices 1-3 were derived from the machine-readable data bases deviced by GAC's Program Analysis Division for the Congressional Sourcebook Series, Appendix 4 was compiled by GAC's Energy and Mitemati Division. All litems in each of the appendices are in securitial accession number order. The four ampendices are destribed below:

 Federal Program Evaluations on Energy. Contains executive agency energy program evaluation reports, arranged alphabetically by title.

(2) Requirements for Recurring Reports to the Congress on Energy. Contains bibliographic citations of energy reports submitted to the Congress, ananged by agency. Both required reports and those volunteered by Faderal departments and agencies are included.

(3) Federal Information Sources and Systems on Energy. Lists by agency Federal energy information sources and systems. A contact and telephone number are given for each entry.

(4) Major Energy Legislation. Includes abstracts of significant energy legislation enacted through the 94th Congress

Index Section

The INDEX section is comprised of four separate indexes, enabling the user to search for information by any one or combination of the following points:

(1) Subject Index

(2) Agency/Organization Index

(Includes both Federal agencies and nongovernmental corporate bodies)

(3) Law/Authority Index

(Includes entries under Public Law names and numbers, U.S. Statutes at Large references, U.S. Code references, House and Senate bill names and numbers, and other statutory authorities)

(4) Congressional Index

(Includes entries under relevant congressional committees/agencies and individual Representatives and Senators to whom documents are addressed)

HOW TO OBTAIN DOCUMENTS

Please order documents listed in the CITATION section by their accession numbers All such documents are available on request from the following unit:

Distribution Section U.S. General Accounting Office 441 G Street, N W., Room 4522 Washington, D.C. 20548 Telephone. (202) 275-6241

Documents and information cited in Appendices 1-3 are not stocked at the General Accounting Office. Contact the originating agency indicated.

Public Laws cited in Appendix 4 may be found in the U.S. Code or the Statutes-at-Large. If the laws have not been codified, copies may be obtained from:

U.S. Government Printing Office North Capitol between G & H St., N.W. Washington, D.C. 20401 Telephone: (202) 783-3238

SAMPLE ENTRY



Citation Section

HOW DO FEDERAL EFFORTS AFFECT ENERGY CONSERVATION ACTIONS?

001

[Dust Fuel Program]. B-114807. May 31, 1973. 2 pp. Report to Arthur R. Sampson, Acting Administrator, General Services Administration; by J. K. Fasick, Director, Logistics and Communications Div

Organization Concerned: Federal Surply Service.

Weakserns were found in the menanement and control of the Dual Fuel program, an experimental effort to reduce automobile engine emissions by converting vehicles to use both natural gas and gasoline, which is administered by the Federal Supply Service of the General Services Administration (GSA). Findings/Conclusions: On the bass of initial results from tests of 12 converted vehicles which showed reductions in emission and operating costs, over \$2 million was authorized to convert and test 1,400 additional vehicles. of which about 1.000 were actually converted. Only limited data were eathered and analyzed. The data were not necrmulated primarily because GSA did not insure that the vehicles would be run on nstural ans. Most operators continued to use easoline: others used natural as less than one third of the time. In planning for this exeanded test. GSA did not adequately consider the control needed over vehicles heing tested, since most cars were assigned to other agencies, and facting facilities were limited. A smaller, more closely controlled fleet under realistic fuel servicing conditions could have produced more useful data, (DJM)

002

[Energy Conservation in Federal Office Buildings in Cellfornia]. B-178205. September 12, 1973. 4 pp.

Report to Arthur F. Sampson, Administrator, General Sorvices Administration; by Robert G. Rothwell (for Fred J. Shafer, Director, Logistics and Communications Div.).

Substatial improvement could be much in earry conservation to Geard's Server Antonization operation for the Migna in California , Findinger/Cantrakows: The major energy consuming operations in energing at couldings about propagate for which all models and the server of the server of the server of the model operation in the server of the server of the material server of the server of the server of the server material server of the server of the server of the server which is functioned on the server of the server of the server which is functioned at the server of the which is sense in the server of the server of

003

[Ways in Which Department of Houling and Urban Development Can Promote Energy Conservation). B-114860. Instituty 3, 1974. 8 pp. Report to Scoretary, Department of Housing and Urban Development; by Henry Brohwarg, Director, Resources and Beonomic Development Div.

The Department of Housing and Urban Development's (HUD) minimum property standards for achieving maximum energy coaservation in new single-faulty house could be attengtismend, and thermal standards should be formulated for existing single family houses. *Fluehlags/Conclusions* HUD minimum property standards for documal instalations, also used by the Department of Agriculture and the Varenza Administration and widely influential in the private constructions in industry, are too week. Significant energy arwing words result (breast administration to the excellated for multificating) eventions, and the state of the second state of the words be selective with greater instations. Rev then available the event the state of the state induction that the state of the words be selective with greater instations. Rev then available the state of each the state of the state induction. Rev then available the state of each the state of the state induction that the state of the state induction and the state of the state induction of the state state of the state of the state induction of the state state of the state state of the state state of the stat

004

[Federal, Efforts to Conserve Fiel in the Movement of Men and Materials], B-178205, March 29, 1974, 10 pp.

Report to William E. Simon, Administrator, Federal Energy Administration; by Phillip S. Hughes, Assistant Comptroller General.

But a dirate its concarre to be its the moviment of non-and matchina affect the concurrence is alting to provide interdeging the net being made to conserve the tag, and even the management aspects of the conservation program required attitudes to the theorem to the matching of the conservation program required attitudes to the theorem of conservation program required attitudes to the theorem to distance the set of the tag. The tag and the tag and the distance to the set of the tag and the tag and the tag and of additional tag and the tag and the tag and the tag and of additional tag and the tag and tag and the tag and tag and the tag and tag and the tag and tag and the tag and tag and the tag and the tag and the tag and tag and the tag and tag and tag and tag and the tag and tag

Recommendatione: The Federal Energy Administration should be use guidelines for the development of energy-use information systems and monitor agency prograss. The role of ngency energy contravision effects should be broakened. Motor vehicles-their numbers, size, and gas consumption-need continuing attention. (D1M)

005

[Energy Efficiency Ratios of Window Air-Conditioners], B-132396, 'May 28, 1974, 3 pp. + enclosure (1 pp.).

Report to Arthur F. Sampson, Administrator, General Services Administration; by Fred J. Shefer, Director, Logistics and Communications Div.

Organization Concerned: Federal Supply Service.

Window alr-conditioning models available from metafacturers must meet General Services Administration (GSA)-specified minimum energy efficiency ratios for purchase by Pederal according

Bestage/Conclusive: Wilk ourge-tiffician is conditions: control initially, how too its more than only to be avaring an is describing too initially, how too its more than only to be avaring an is describing effective takes in the too test two variants and the second 2000 over the present, the Government would have seved \$335,000 over the 12 years if projets, figured on series you stravely to describe the second second second second second second second president of the second second second second second consider whether indications interacted should be Governent, CONY,

[Eurgy, Conservation Practices Encouraged by Stater], B-178205, August 15, 1974, 11 no.

Report to John C. Sawhill, Administrator, Federal Energy Administration; by Monte Canfield, Jr., Director, Office of Energy and Special Projects.

Organization Concerned: Federal Power Commission. Authoritys P.L. 93-275. F.P.C. Order 495.

Several problems were identified in a survey of the energy conservision practices being encouraged by State utility commissions and public stillities. Fiedings/Conclusions These problems involve the need for (1) evaluation of the effectiveness of existing or planned correct conservation reactices of utilities: (2) additional authority for State utility commissions to require or promote energy conservation practices; and (3) intensification and coordination of the Federal effort in addition to voluntary efforts by the public, several other conservation actions were being taken by public atalities and commissions involving rate-structure changes and the installation of energysaving devices. A number of State regulatory spencies do not consider conservation their responsibility or lack authority to regulate utilities. Recommendations: The Office of Conservation and Energy should increase its efforts to evaluate and advocate energy conservation practices by utilities, provide technical assistance to utilities and regulatory agencies in setting standards for evaluating results of conservation, and advocate legislation to strengthen the authority of State regulatory agencies. All such efforts should be coordinated with the Federal Power Commission. (DJM)

007

Bio Federal Agencies Can Conserve Utilities and Reduce their Cast. D-178265. September 17, 1974. 40 pp. + 7 appendices (16 pp.). Report to Secretary, Department of Defense, Administrator, Genentl Services Administration; by Fred J. Shafer, Director, Logissis and Constructionisms Div.

Organization Concerned: Federal Energy Administration.

Responsibility for utility management in Federal Government facilities rests mainly with the General Services Administration (GSA) and the Department of Defeate (DOD); energy more is monitored by the Office of Energy Conservation (OEC), Federal Energy Administration (FEA), Finding/Conclusion: The OEC reported an overall reduction of 23% and a reduction of 11% in energy used in building and facility operations during the first half of FY 1974. Of 19 installations reviewed by GAO, 12 had no utility conservation and management plans, and conservation was being siven insufficient attention at the installation level. Although there was an acceleration of energy-related activity after April 1973, planning in building design and construction needs improvement. Also, installations did not have the necessary information for making the most economic selection in utility procurement, and lacked trained personnel with expertise in the utility area. Since completion of GAO fieldwork, energy guidelines have been issued by FEA and OSA.

Indiverse integry guidentian and cardination with DOD, PEA, and Recommendations: GEA, in coordination with DOD, PEA, and where necessary, the Office of Management and Budget, should: (1) confere using whithy rate coordinates suff i-hondeus expertise has been developed; (2) provide and train personnel for managing utilties officiently; and (3) advise Federal agencies to disseminate information on utility management which their organizations. (HTW)

800

[Energy Conservation Program of Five Government Contractors]. B-178205, October 29, 1974, 7 pp.

Report to James R Schlesinger, Secretary, Department of Defense; by Richard W. Gutmann, Director, Procurement and Systems Acquisition Div.

A survey of energy conservation programs of five Government contractors indicated that the contractors were taking some actions to conserve energy. The Department of Defense (DOD) has also taken some stens to have contractors establish energy conservation programs. Findings/Conclusions: The need for greater commitment toward conservation by contractors was evident from the orgenization and personnel assigned to some of the programs. Capital expenditures for conservation projects had to be recovered through savings in a short time, and there was a lack of baseline data on energy use that would provide a basis for planning and setting goals. For these contractors to achieve energy reductions, the DOD and other agencies will have to become more directly involved in contervation and improve and coordinate their actions to achieve max-Imum banefits. Recommendations: A formal Government-wide energy conservation policy should be developed for contractors, and the reasonsible Federal spencies should coordinate their actions with respect to monitoring and following up on the contractors' imreferentation of programs, (DJM)

009

[Efforts to Encourage Conservation in the Private Sector]. B-178205. November 12, 1974. 4 pp. 1 11 Resort to John C. Stewhill, Administrator, Federal Energy Adminis-

Report to John C. Sawhill, Administrator, Federal Energy Administration; by Monte Canfield, Jr., Director, Office of Special Programs.

The Federal Energy Administration (FEA) should expand its leadership role within the Federal Government to encourage participation by all agencies and departments in identifying actions that encourage and effect energy conservation in the private sector. Fin-dimes/Constitution: The FEA and several departments surveyed implemented extensive promotional and educational energy conservation programs. However, there were inconsistent and unsystematic efforts emona departments, and some had done relatively little. This indicated the need for an overall plan designed to marshall the resources of the Federal Government to effect changes in laws affecting private energy use. Considerable benefit could come from further improving FEA's interagency coordination and guidence in identifying specific energy conservation programs that will significantly save energy in the private sector. Some Federal officials believed that the problem of obtaining the resources needed to evaluate and implement conservation measures could be alleviated by FEA leadership. Recommendations: FEA must develop and coordinate a connechessive Federal effort to exchant and, where processary, change the many Federal laws, regulations, and policies which touch on private energy use; and provide guidelines to other Federal bodies setting forth their roles and responsibilities. (DJM)

010

[Federal Efforts to Conserve Energy]. B-178205. November 14, 1974. 4 pp. + enclosure (2 pp.).

Report to Rep. Henry S. Reuss, Chairman, House Committee on Government Operations: Conservation, Energy and Natural Resources Subcommittee; by Elmer B. Staats, Comptroller General.

Organization Concerned: Federal Energy Administration.

Congressional Relavances Hours Committee on Oovernment Operations: Conservation, Epergy and Natural Resources Subcommittee.

A 1974 report on Pedent I defen to coasere energy recommodel that (1) the Administrat of the Pedent Barry Adminitration (FRA) have profetion for Pedent a provide to use in instructions involves provide the Administration of the Pedent instructions involves provides that moves which full commutions and administration of the provide that the Administration administration systems and their monitoring. FRA has insule a structured involves on the properiodition of energy conservadifferent information systems and their monitoring. FRA has insule a structured involves of the provides of compare vehicles in Figure 4 different information of the properiodition of program of the information different information of the properiodition of program of the information different information of the properiodition of program of the information different information of the properiodition of the properiodition of the different information of the properiodition of the properiodition of the different information of the properiodition of the properiodition of the different information of the properiodition of the properiodition of the properiodition of the different information of the properiodition of the properiodition of the different information of the properiodition of the properiodition of the properiodition of the different information of the properiodition of the prope 2 out of a total of 30 requists for exemptions were approved. The mileage reduction requirement has been lowered from 20% to 15%. (DJM)

011

[The Energy Impact of Moving Department of Defense Activities from the Military Ocean Terminal, Brooklyn, New York, to Beyonne, New Jessey]. LCD-74-353; B-178205. Docember 31, 1974. 4 pp. + enclassuces (J pp.).

Report to Rop. Hugh L. Carey; by Elmer B. Stasts, Comptraller General.

Organization Concerned: Department of Defense; Department of the Army; Department of the Navy.

Congressional Relevances Rep. Hugh L. Carcy.

The Army estimated the changes in energy consumption resulting from the move of Department of Defense activities at the Military Ocean Terminal, Brooklyn, New York, to Bayonne, New Jeney, and GAO made estimates from the information provided. Find ings/Conclusions: Army estimates show savings of from 1.6 to 2.2 million gallons of heating oil annually regulting mainly from the heat's being turned off in the Brookian space, and the Bayonne space's being either felly heated or being heated to 55 degrees. The sevings in heating-oil consumption will be partly offert by an increated gaseline requirement of about 196,500 galloas annually by commuting employees. There will be a net increase of about \$0,000 kilowatt-hours of electricity consumption annually. The total costs of moving the Army activities are expected to be \$4.57 million. The Army expects savings of about \$2.3 million a year as the result of eliminating 147 personnel associated with base operation functions at Brooklyn and reducing overall fuel requirements. The Navy does not expect any savings from the move. Moving the Bayoane activities to Brooklyn instead of the reverse does not annear feasible because of the lack of space and poorer layout and condition of facilities at Brooklyn, (OM)

012

[The Department of Defense's Construction of Petroleum]. LCD-75-430; B-178205. Fobruary 24, 1975. 10 pp. + enclosures (5 pp.). Royer to Son. John C. Stennis, Chalman, Stenate Committee on Armed Servicety by Elmer B. Staats, Comptralier General.

Organization Concerned: Department of Defense; Department of the Navy; Department of the Army; Department of the Air Force. Congressional Relevance: Senate Committee on Armed Services.

During 1974, the Department of Defense (DOD) used 185.7 million barrels of petrolaum fuels, about 3% of the national continue tion. DOD expected to use 203.7 million barrels in fiscal year 1975 about 3.6% of national communition. Findings/Oundprivan DOD established the following organizations to deal with energy mattern a Defense Faerey Task Group to review energy-mining problems and recommend solutions; a Defense Energy Policy Council to deveion broad energy soliton suidations; and a Defense Roscan Action Group to help coordinate the implementation of the Council's guidelines and to provide a forum for exchanging information. These is also a Director for Boergy whose responsibilities include: developing a petroleum logistics policy; assisting in the development of DOD energy budgets; serving as DOD's principal point of contact on all energy matters and on implementation of energy policy: managing DOD's energy conservation program; monitoring the implementation of the task group's recommendations; and developing a Defense energy information system. During facal year 1974 DOD showed a 29% reduction in petrojeum usage from the previous year, largely due to a reduction in flying hours and ship-steaming hours and other actions to conserve alecraft and ahip fuel. Rising fuel prices have however, put DOD in the position of spending more while using less.

Recommendations: An additional way to promote energy constrvation in DOD might be to give residents of military housing in allowance for energy costs and charge them for energy actually consumed. DOD should continue to keep its conservation peogama alive and active. (QM)

013

Using Solid Waste to Conserve Resource and to Create Evergy, RED-75-326; B-166506, Pobrosty 27, 1975. 62 pp. + 3 appendices (7 pp.).

Report to the Congress; by Bimer B. Stasts, Comptroller General.

Organisation Concerned: Energy Research and Development Administration.

Congressional Ralevance: Congress

Authoritys Resource Recovery Act of 1970 (42 U.S.C. 3251), Solid Waste Disposal Act of 1965 (42 U.S.C. 3251), P.L. 93-14, P.L. 93-324,

Resource recovery can help solve problems of energy consumption and conservation, but most importantly of solid waste disposal Solid waste threatens to become a severe environmental problem in terms of both cost and public concern. Findings/Conclusions: Though the Environmental Protection Agency (EPA) has been slow in implementing the resource recovery provisions of the Resource Recovery Act of 1970, improvement has been made, particularly with respect to the required studies and investigations. The key to resource recovery is economics. The Government can take several actions to make secondary materials more attractive for recovery such as product controls, and Pederal procurement, tax, and freight rate policies to provide incentives to promote recovery, Development of systems that recover metals and glass from solid waste and convert the remainder into energy needs to be encouraged. About 80% of municipal waste can be burned to generate energy. Several demonstration projects for resource receivery have been funded by the Pederal Government. Recommendations: EPA should provide expanded Federal assistance to States and local communities to solve their solid waste problems vie resource recovery systems in such wave as: determining whether a system would be appropriate for a particular community, selecting a particular system, obtaining markets for the system's products, getting a number of communities to participate jointly in a system, and providing assistance in the initial operating phase of a system. (DJM

014

Bulk Fush Need To Be Better Managed. LCD-74-444; B-163925. April 8, 1975. 21 pp. + appendices (6 pp.). Report to the Congress; by Elmer B. Statis, Comptraller General.

Organization Concerned: Department of Defense; Department of Defense: Defense Fuel Supply Center, Alexandris, VA. Congressional Rejevance: Congress.

Much of the Department of Defense's (DOD's) total fuel storage requirements are not supported by an investory of fuel because fuel storage is unavailable. Findings/Conclusion: DOD has been unable to leave additional storage and has no tians to construct storage. The military services did not always furnish contractor-operated terminals with contingency plans for delivering fue) during an emergency. Some estimates of fuel needs for U.S. military forces in the United States and overseas are excessive because DOD's formula for computing requirements uses factors such as predetermined levels rather than levels based on usage and provides for increases in requiraments to include quantities in pipelines and storage tank bottoms. Full requirements in the United Status and the Pacific Theatre are overstated by at least 2.6 million barrels. Recause the acryless have final authority over which product should be stored in their tanks, the Defense Fuel Supply Center has not been able to obtain full use of storage, most the services' fuel requirements, or improve overall storage management. Recommendations: The services should revaluate war reserve requirements and implament a plan to provide adequate storage capacity. The Secretary should give the Defense Fuel Supply Center more authority over the assignment of products to storage facilities. The Defense Fuel Supply Center should: take steps to insure timely preparation and distribution of the "Inventory Management Flan"; change its procedure for computing

peacetime operating stockage objectives; and review the use of Goverment-loward accege to determine the need for leased torque, dowlog specific plans for covering current lacks in fold quantities, and coordinate the funding for the fuel and atorage capability. The Nary should coast unble stocks in tank bottoms and pipelines in comparing its ware referer requirements. (Aubor (OM)

015

Energy Conservation. April 16, 1975. 12 pp. + 2 appendices (4 pp.). Trainway before the Senate Committee on Government Operations; by Phillp 3, Hughes, Assistant Comptroller General.

Congressional Relevances Energy Research and Development Administration; Federal Energy Administration.

Energy conservation must be a key element of a national energy policy which will significantly alter recent patterns of energy consumption. A variety of conservation measures will have to be taken. In the tracsportation area, changes in the Nation's driving habits can be brought about by rebates for energy efficient cars, mandatory full standards for new cars, a gas tax, and a gas guzzler tax on large inefficient automobiles. Tax credits can be extended for home and business insulation and for energy efficient industrial equipment. Thermal performance standards for homes should be upgraded. Import grantes can help reduce oil imports by two million barrels over a 2-3 year period. A new Department of Energy and National Resources consisting of the key energy-related agencies of Government should be established. The Government can play two conservation roles-as a consumer itself, and by laws, programs, and policies in the private sector. A formal Government-wide mandatory contractor conservation policy should be developed with monstoring and followur. State utility commissions and public utilities could be provided information and assistance in evaluating conservation practices. (DJM)

016

Review of the Progress and Problems of Resource Recorety Since the Passage of the Resource Recorety Act 1978. April 16, 1975. 11 pp. Testimory before the House Committee on Interestite and Pareign Commerce: Transportation and Commerce Subcommitteey by Henry Schwitzg, Director, Resources and Economic Davelopment Div.

Organization Concerned: Environmental Frederica Agency. Congressional Relevance: House Committee on Interstate and Poreign Commerce: Transpirtution and Commerce Subcommittee. Authenty: Resource Recovery Act of 1970. Solid Waste Disposal Act of 1955. H.R. 5457 [944] Cong.].

The Resource Recovery Act of 1970 redirected waste programs from disposal to recycline. Under this legislation, the Environmental Protection Agency (EPA) awarded grants for demonstration prolects, but nose had been completed. Issues noted relating to the toanomies of resource recovery were: (1) discrimination in freight rates in favor of virgin over recovered materials; (2) Federal procurement policy toward products containing recovered materials; and (3) taxes which favor virgin materials. Another area recommended for consideration was the use of solid waste as every by combustion or conversion. Enhancement of EPA assistance to State and local governments was recommended through determination of the appropriatoness of resource recovery systems, obtaining markets for products, joint participation of communities, and assistance in initial phases. Although analysis of H.R. 5487 was not complete, it was felt that provisions for the Comptroller General to participate in arbitration between proturing agencies and suppliers should be deleted and provisions should be developed for GAO soctss to records. (HTW)

017

[Comparison of Energy Une in Five Federal Office Buildings]. LCD-75-341; B-178205. April 18, 1975. 2 pp. + enclosures (20 pp.).

Report to Rep. Charles A. Vanik; by Robert G. Rothwell (for Fred. J. Shafer, Director, Logistics and Communications Div.).

Organization Concerned: General Services Administration. Congressional Relevance: Rep. Charles A. Vanik.

Energy consumption and post information for five Federal Office Buildings was obtained from utility bills and General Services Administration records the Anthony J. Celebrezze Federal Building in Cleveland, Ohio; the John F. Kennedy Federal Building in Boston, Massachusetts; the Federal Building in Kansas City, Missouri; the Federal Building in Los Angeles, California; and Federal Building 10A in Washington, D.C. Findings/Conclusions: Energy use in the five buildings, principally electricity and steam, was substantially lower in 1974 (although the cost was in some cases higher) than in the same months of 1972. Electricity use quantity was 16% under and out was 32% above the 1972 figures for the Cleveland building, while steam/gas quantity was 40% lower and cost was 15% lower. In the Boston building the quantity of electricity use was 24% below the 1972 figure and the cost was 38% above it. The quantity of steam/gas use was 22% below and the cost of the steam/gas was 78% over the 1972 figures in that building. The Kansas Oty building showed a reduction in all quantity and cost figures: a 25% quantity and 10% cost reduction in electricity use in 1974 and a 36% quantity and 12% use reduction in steam/gas use. Electricity use quantity was 40% below and cost was 62% above the 1972 figures for the Los Angeles building, while steam/gas usage was 79% and 70% lower for usage and cost. The Washington, D.C., building showed a 37% reduction and a 42% increase in electricity are quantity and cost, respectively and a 3% reduction and 6% increase in steam/gas usage quantity and osst. (Author/QM)

810

Improvements Needed in Controls and Accounting for Ground Vehicle Petroleum. LCD-75-218; B-163926. May 20, 1975. 2 pp. + appendices (18 pp.).

Report to Socretary, Department of Defense; by Fred J. Shafer, Director, Logistics and Communications Div.

Organization Concerned: Department of the Navy; Department of the Army; Department of the Air Force,

Unaccounted-for petroleum shortages of 114,000 gallons were found at three out of four audited Army installations, and petroleum issues totaling 2.3 million gallons could not be validated because the records and/or documentations were not available. Findings/Conclarious: These conditions occurred because: the presenbed system did not promptly identify shortages, practices did not conform to prescribed accounting procedures; controls did not adequately insure that issues were made only for authorized purposes; and, in some instances, dispensing and storage facilities did not function properly or were antiquated and inadequate. In contrast to the poor management at most of the Army activities, management controls and acocustability practices were generally good at Fort Bragg. The audited Navy and Air Fome activities managed and followed recordures which provided much better control over and accountability for petrelearn. Recommendations: The Secretary of Defense should: study the feasibility of establishing and implementing a uniform DOD avatem for polyoleum management patterned after the Air Force and Navy systems; direct the Secretary of the Army to take immediate action to enforce the Army's existing procedures for control over and accountability for petroleum pending the results of the Secretary of Defense's study; and direct the Secretary of the Aresy. to have the Army Audit Agency perform an Army wide audit of the management of petroleum used by ground vehicles to insure that the actions are unplemented promptly and properly. If the audit indicates possible improprieties in the handling of petroleum, the Secretary of the Army should direct the Army's Criminal Investigation Command to determine whether any criminal actions were involved. (Author/OM)

National Standards Needed for Residential Energy Conservation. RED-75-377; B-178205. June 20, 1975. 28 pp. + sppendices. Report to the Congress; by Elmer B. Stasts, Comptroller General.

Organization Concerned: Department of Housing and Urban Development: Energy Research and Development Administration Congressionel Relevance: Congress.

Authoritys Energy Reorganization Act of 1974 (P.L. 93-438) Solar Heating and Cooling Demonstration Act of 1974 (P.L. 93-409).

The residential soctor consumes over 19% of the total energy used in the United States. A national program is needed to achieve maximum energy efficiency in the residential sector. Findings/Conclusions Most existing housing units are in need of thermal improvements, and new construction is not concentrating on energy efficiency. According to ostimates, energy conservation measures could result in sevings of 30% and 60% for old and new buildings. respectively. Ressons for failure to utilize such measures include emphasis on initial costs, technological problems, limited use of Department of Housing and Urban Development's (HUD) minimum property standards, and limited research. Comprehensive logislation is necessary to achieve energy-officient housing. Bills before Congress require policy decisions related to costs, lifestyles, and Federal incentives to industry. Legislation could include actions such as establishing a national energy conservation program, requiring establishment of national energy performance standards, providing incentives for retrofitting homes, and requiring efficiency labeling of appliances. Recommendations: Before enactment of new Insistention. HUD should stress energy conservation by emphasizing operating costs as well as initial construction costs, establishing thermal standards for Federally-insured housing, and contracting for more energyofficient housing subsystems. (HTW)

020

The Nava's Prostice of Discharging Fuel at Sex LDC-76-420-B-146333. December 12, 1975. 8 pp. + 2 enclosures. Report to Rep. Ralph H. Metcalife; by Elmer B. Staats, Comptroller General.

Orgonization Concerned: Department of the Navy, Congressional Relevance: Rep Ralph H. Metcalife.

It is a common practice for Navy vessels to discharge fuel into the ses. Findings/Conclusion: Fuels are discharged into the sca when (1) water is removed from tanks, (2) tanks are flushed and cleaned, and (3) residue is pumped from bilge and ballast tanks. Navy records were not adequate for calculating the exact quantities of fact discharged. Available records showed that, during fiscal years 1974 and 1975, ollers and carriers discharged from fuel tanks at least 13 million gallons of a water and fuel mixture, with estimated fuel value of about \$500,000. The Nevy has developed procedures to stop dumping aviation gasoline and has set a goal of ceasing all oily discharges from all ships through this alterations. Recommendations: Fuel management and control of fuel discharges should be improved by: (1) requiring survey reports to be submitted; and (2) expanding reporting systems to show discharges from all vessels, include more details, and show estimated volumes of fuel against water dispharged. (HTW)

Property and Problems of the Government's Utility Convergation Program. LCD-76-311; B-178205. December 30, 1975. 19 pp. + 2 apindices (5 pp.).

Report to Rep. William S. Moothead, Chairman, House Committee

on Government Operations: Conservation, Energy and Natural Resources Subcommittee; by Elmer B. Staats, Comptroller General.

Organization Concerned: Cleneral Services Administration: Department of Defense

Congrassional Relevance: Hour Committee on Government Operations: Conservation, Energy and Natural Resources Subcommittee, Authority: Federal Management Greular 74-1, as supplemented.

The General Services Administration (GSA) and the Department of Defense (DOD), who manuat the regatest properties of Government buildings, have taken steps to improve design and construction for energy conservation, but further improvements are needed. Fineings/Cauciusians: The process for selection and review of utility rates and charges would be improved by computer satisfance. Conservation programs have resulted in large reductions in energy use, but greater roductions would result from more stringent enforcement, Record maintenance for stillity contract administration was adequate at DOD installations, but inadequate at GSA regions, and personnel skilled at procuring and managing utilities was lacking at most of the locations. Recommendations: GSA and DOD should: (1) make greater use of computers in reviewing utility charges; (2) enforce prescribed Federal lighting and heating standards; and (3) provide for personnel trained in utility management, GSA should ensure satisfactory maintenance of utility records, (HTW)

022

Potential for Using Electric Vehicles on Federal Installations. LCD-76: B-135945. March 3, 1976. 3 pp. + appendix (17 pp.). Report to Ren. Gilbert Gude: by Elmer B. Staats. Comptroller General.

Organization Concerned: Environmental Protection Agency. Congressional Relevance: Rep Gilbert Orde.

Many conventional, high performance vehicles restricted to onthe-facility use at Federal installations could be replaced by electric vehicles or low-performance, gasoline-powered vehicles. Replacing conventional vehicles with low-performance vehicles of either electrical or conventional design would result in lower energy consumption and lower air pollution levels. Findings/Conclusions: There are more than 400,000 off-the-road electric vehicles in service in the United States, and their market is well established. Electric vehicles are special purpose vehicles, and low performance characteristics such as short ranges, low acceleration, and poor hill climbing ability restrict their usefulness. While electric vehicles do not produce exhaust gas emissions, they do contribute to air pollution when they use electricity generated in powerplants (seled by cos) or oil. Electric vehicles use less petroleum and will conserve entray as they replace high-powered conventional vehicles, particularly in low-speed, multistop driving. Off-the-road electric vehicles are likely to be economically attractive because their acquisition cost is comparable to the conventional vehicles they replace. On the road electric vehicles are less likely to be economically attractive because their acquisition costs are often two to three times higher than the conventional vehicles they replace. (RRS)

021

Folicies and Programs Being Developed To Exampl Procurement of Products Containing Recycled Materials. PSAD-76-139; B-166506 May 18, 1976. 19 pp. + appendices (7 pp.). Report to the Congress: by Elmer B. Staats. Comptroller General.

Organization Concerned: Department of Defense; General Services Administration; Environmental Protection Agency. Concressional Relevances Contress.

Authority: Energy Policy and Conservation Act of 1975 (P.L. 94-163). Resource Recovery Act of 1970 (P.L. 91-512). Solid Waste Dispotal Act, Federal Property and Administrative Services Act of 1949.

Efforts are being made within the Government to increase the use of recorded materials in products being purchased by Federal agencies The banefits of using recycled products include: significant savings in energy, conservation of scarce natural resources, reduced the volume of weste requiring disposal, and alleviating dependency on foreign sources of supply. Findings/Conclusions: Federal initiatives for the use of recycled products involve; (1) a Clenzral Services Administration (OSA) program to purchase recycled paper; (2) middlines by the Environmental Protoction Asency for procuring products containing recycled materials; and (3) enactment of an act promoting the use of recycled oil. There is a need for more management emphasis by GSA and the Department of Defense (DOD) to further exerted producement of recorded products. Recommenda-Neur GSA should establish a formal program for proturing recycled products and insure that the efforts it has made in purchasing rowcled paper products are extended to other commodity areas. The DOD should develop a coordinated program to appressively promote the reocurement of products with recycled material content (RRS)

[Department of Commerce's "SavEnergy Citations"]. OSP-76-24: B-178205 May 27, 1976, Released June 8, 1976. 3 pp. + 3 enclosures (7 m)

Report to Rep Philip R. Sharp, by Monte Canfleid, Jr., Director, Factory and Minerals Div.

Organization Conterend: Department of Commerce, Federal Energy Administration.

Congressional Relevance: Rep. Philip R. Sharp

The "SavEnergy Catation" activity of the Department of Commerce was designed to encourage companies to commit themselves to the adoption of effective energy management programs. A "Sav-Energy Citation" was sent to the chief executive of each of the selected companies pledging a high-priority energy management program. Findings/Conclusions: The citation activity was not designed to be an ongoing activity, but was intended to impress upon American industry the importance of effective energy management. The Department has received most of the expected responses and sent out most of the citations. Df the 43,000 companies contacted in 1973, about \$,000 responded and received citations About 17,000 of the 154,000 companies contacted in 1975 responded. The cost of the 1973 activity was not available, the 1975 activity cost approximately \$42,000 (RRS)

Status of Federal and Private Research and Development Efforts to Conserve Jurge by Reducing Electric Power Transmission Louis RED-76-107 June 1, 1976. 15 pp

Staff study by Henry Eschwege, Director, Community and Economic Development Div.

Orgonization Concernad: Energy Research and Development Administration. Authority: P.L. 93-438

Reducing electrical energy losses during transmission would contribute to the energy conservation effort. Findings/Conclusions: Electric energy is lost during transmission because of certain laws of physics which affect electricity in various types of transmission systems Four factors cause most of the less of electric energy during transmission; resistance, skin effect, corona, and insulation. Resistance and skin effect cause most power losses during overhead transmission, about 2.5% of net generation. Estimated transmission losses during 1975 were equivalent to about 80 million barrels of oil fabout a 4.5-day requirement). Theoretically, transmission lesses can be

reduced by increasing the conductor's cross-section areas, raising transmission voltage levels, and lowering the line's temperature. I opering conductor temperature will also reduce resistance losses. Opportunities for large reductions in transmission losses in the near future are lumited without new technological breakthroughs. Future research emphasis may change depending on changing needs. (RRS)

026

Opportunities for More Effective Use of Animal Manure. RED-76-10); B-166505. June 14, 1976. 27 pp. + 5 appendices (13 pp.). Report to the Congress, by Elmer B. Staats, Comptroller General.

Organization Concerned: Environmental Protection Agency: Department of Agriculture: Energy Research and Development Administration

Manure is a valuable economic asset which can be used as fertilster or from which byproducts can be recovered. Findings/Conclutions: About half of the animal manute (1 billion fbs.) produced annually in the United States is generated in feedlots and confinement areas and is easily recoverable. Many farmers do not realize the full potential of manure as fertilizer, or misapply it, alone or in conjunction with chemical fertilizers. The need exists for readily available soil and manure testing for farmers. Manure can be used to produce methane sas and ammonia, converted into fuel by pyrolysis or hish pressure with residues turned into industrial products as carbon block or insulation, processed and refed to animals, or composted Recommendations: The Department of Agriculture should educate farmers as to the benefits and use of manure as fertilizer, and facilitate soil and manure testing for agricultural users. The Environmental Protection Agency should promote intrasgency agreemental detected toward making animal manure use technology commercially vable (Author/DJM)

627

Energy Conservation Financing, July 26, 1976. 7 pp + enclosures (7

Testmany before the House Committee on Banking, Correnty and Housing: Feanamy Stabilization Subcommittee: by Monte Canfield. Jr., Director, Energy and Minerals Div.

Quantization Contained: Federal Factory Administration: Factory Research and Development Administration

Congressional Relevance: House Committee on Banking, Currency and Housing: Economic Stabilization Subcommittee.

Authority: Federal Forces: Administration Extension Act: H.R. 12169 (94th Cong.). Energy Policy and Construation Act. H.R. 14205 (94th Cong.).

Both H.R. 14205 and H.R. 12169 would increase national attention and activity in energy conservation. Neither hill, however, addresses conservation opportunities available in the transportation sector. Subsidized public transportation for low-income persons, the purchase of buses, and the development of fringe parking lots and extress bus lance should be considered. The bills provide loan guarantees for energy conservation measures and direct loans for small business concerns. Direct Federal assistance is also provided to stimulate conservation in the residential and commercial sectors Other financial incentives abould be considered such as low interest loans, and tax writeoffs or rebates for conservation improvements No single financial mechanism is universally accentable for all encray activities. Loan guarantees would not necessarily induce contervation investments by large integrated corporations if they believed that they had an opportunity to receive more return on investment in other activities. The Federal Energy Administration and the Energy Research and Development Administration should be abolished and a new energy organization to be called the National Energy Administration should be created as an interim step toward the establishment of a Department of Energy and Natural Resources, Certain clarifications and changes should be made to the reporting and review requirements of the Comptrollor General under the Federal Energy Administration Extension Act. (Author/QM)

028

Energy Conservation at Government Field hutoilations: Progress and Problems. LCD-76-229; B-178205. August 19, 1976. 25 pp. + appendices (33 pp.).

Report to the Congress; by Elmer B. Staats, Comptroller General.

Organization Concerned: Department of Defense; Federal Energy Administration, General Services Administration.

Congrassional Relavance: Congress.

Authority: Energy Policy and Conservation Act (42 U.S.C 6201), Federal Management Circular 74-1. B-178205 (1974).

In June 1973, the President started a programs to reduce energy use in the Folders Howmannet, which can produce a swings of about \$30 million for every 1% of reduction. During 1975, GAO visited 77 millitary and dviri insultations and found that, although there had been a patrent attempt to construct, much mare could be doen. Implementation of the provisions of the Energy Policy and Conservation. Act will further strengthen the construction program.

Findings/Conclusions: Deficiencies included a lack of conservation plans, an absence of any individual or group to manage the program, and improper or nonexistent internal and external audits. A need for greater leadership and more agressiveness in promoting conservation was indicated by the lack of idea interchange among installations and the general unawareness of antagenism, or apathy of employees towards conserving energy. Despite the Federal Baerey Administration's statement that the Government, generally, was meeting the entrey conservation goals, GAO found many installations to be falling short of the goals. The situation was compounded by the continuation of the problem of measuring energy usage completely and accurately. Greater conservation efforts were needed in the size of and frequency of use of vehicles. Further effort was needed in reducing lighting, heating, and cooling usage levels, Mission and training operations needed to be modified to conserve more energy Recommendations: Program management should be improved to promote better procedures and practices, resistant the adopasty of entrgy conservation goals, review and inspect conservation activities, and stimulate employees to cooperate. Energy consumption data should be better coordinated among security and guidelines should be improved. Government regulations concerning vehicle use and size should be better enforced, as should submission of miteage reports to General Services Administration. Some faciliture should be modified and lighting, heating, and cooling standards adhered to. Mission and training operations should be studied to determine methods of conserving energy, without adversely affecting their objectives. (Author/SS)

029

¹⁰ Construction and Insonation. November 30, 1976. 6 pp. Speech before World Wildlife Food, Fourth International Congress, San Francisco, CA; by Monte Casfield, Jr., Director, Energy and Minorals Div.

Government use of public publicy to estimates to constraints of insortium is not insert of starger bargeond. If we squandse our values of the start of the start of the start of the start wide will car use of contemplic to the start on the inspend by government. Direct entries it is estimate, simple transmission. Contraints and the start of the start of the start of the inspend to redding the spectrasters, site A million of start problem, single work of the start of the start of the start of the inspect the redding the spectrasters, site A million of the start problem. The start start of the start of the start of the start of the start start start of the start start of the start of th

Energy Digest SEPTEMBER 1977

030

[Federal Efforts to Improve the Fuel Economy of New Automobiles]. B-178205, January 13, 1977, 6 pp.

Report to Elliot Richardson, Chairman, Energy Resources Council; by Monte Canfield, Jr., Director, Energy and Minerals Div.

Organization Concernad: Department of Transportation; Environmental Protection Agency,

Congrassional Relevance: House Committee on Science and Tochnology; South Committee on Introir and Insular Affairs. Authority: Energy Reorganization Act of 1974, § 108 (42 U.S.C. 518).

A Federal task force completed a comprehensive study of the long range energy goals for motor vehicles. The draft report of the task force attempts to present a balanced view of the tradeoffs that may be fessible and necessary among actomobile goals beyond 1980.

Analog concentions: The send to biassing a Board extention indexed, softy, and the lowers's it stress. If the United Host methods, softy, and the lowers's it stress. If the United Host methods is a stress of the United Host methods and the indexe of the Internet Analog and the Internet Analog and Internet Methods and Internet Analog Cound Index strektish is followed programs in device and the strektish strektish is followed and the Internet Resource Cound Index strektish is followed programs in device and the strektish strektish and a product an internet Analog and the strektish strektish and Internet Analog and Internet Analog Analog Analog (INT). These stated aboard is not in the strektish strektish (INT) and Internet Analog and the strektish strektish (INT) and Internet Analog and the strektish strektish (INT) and Internet Analog and Internet Analog Analog Analog (INT). These strektish aboard is not the strektish strektish (INT) and Internet Analog and Internet Analog (INT). The strektish and Internet Analog Analog and Internet Analog (INT) and Internet Analog (INT) and Internet Analog and Internet Analog and Internet Analog (INT). The strektish and Internet Analog Analog (INT) and Internet Ana

WHAT ARE THE PROBLEMS AND POTENTIAL SOLUTIONS ASSOCIATED WITH MAKING NUCLEAR FISSION A SUBSTANTIAL ENERGY SOURCE?

031

[The Resear Impection Program of the Atomic Energy Commission]. B-164105 January 19, 1973. 6 pp.

Report to James R. Schlosinger, Chairman, Atomie Energy Commission; by Henry Bichwege, Director, Resources and Economic Development Div.

Authority: 10 C.F.R. 50.

The Atomic Energy Commission (ABC) carries out its atatutory responsibility for insuring that nuclear power reactors are constructed and operated in a safe and healthy manner through its reactor inspection program. Findings/Conclusions: AEC has 18 quality assessme criteria which licensees are expected to follow. Analysis of the 18 quality assurance criteria showed that 21 terms are subject to considerable subjective interpretation. AEC did not formally ask 13 atilities determined to be inadequately complying with the criteria to upgrade their quality assurance plana. ABC has not enchasized reviewing licensee grafity assurance audits at plants which have been under construction for quite some time because the quality assurance manuals for these reactors did not clearly define provisions for performing quality assurance audits. Recommendadens: AEC should provide its inspectors with suidenon as to what constitutes acceptable methods of implementation of the 18 quality ssaurance criteria; develop a well-defined minimum inspection program that would provide inspectors with the guidance needed to carry out program objectives; require the operating reactor licensees to upgrade their quality assurance plans to improve the basis for evaluating the adequacy of licensees' quality assurance programsand require its reactor inspectors to systematically and consistently review and evaluate licensees' quality assurance audits. (Author/QM)

Proposed Changes to the Atomic Energy Commission's Arrangement for Carrying Out the Liquid Metal Fast Breeder Reactor Demonstration Project. Bi-16105, Pebruary 27, 1973. 6 pp. + appendix (19 pp). Report to Rep. Melvin Price, Chairman, Joint Committee on Atomic Boregy: by Elsent B. Statas, Comptibiler Centeral.

Organization Cancerned: Atomic Energy Commission; Tennessee Valley Authority; Breeder Reactor Corp.; Project Management Corp.; Commonwealth Edison Co.

Congressional Relevance: Joint Committee on Atomic Beergy. Authority: P.L. 91-273. P.L. 92-84.

The Atomic Beergy Commission (AEC) sumbitted a memorandum of understanding, later amended, to the Joint Committee on Atomic Energy proposing a cooperative arrangement for designing, constructing, and operating the liquid metal fast breeder reactor demonstration project. Proposed changes concerned consolidation of contracts, management, indemnity provisions, funding, and licensing. Findings/Conclusions: The parties agreed to consolidate seven contracts into two, eliminating one which would have given ABC direct legal rights against the Breeder Reactor Corporation. Certain provisions related to resolution of disagreements could lead to termination of the project or cost overruns. Indemnification provisions of the original memotandum were excanded to include all expenses. whether or not they related to claims and liabilities. In addition to AEC costs calculated at \$422 million, costs will be incurred for program direction, administration, and use of AEC personnel. Other proposals deal with the use of AEC funds for interest expense ou protect loans, the independence of ficeusing review, and cost principles to be applied to AEC funds. (HTW)

033

Purther Commonits on Atomic Energy Commission's Proposed Arrangemont for the Liquid Matal Fast Browler Resource Demonstration Project. B164103. April 30, 1973. 2 pp. + a ppendices (19 pp.). Report to Rep. McIvia Price, Chairman, Joint Committee on Atomic Bergys by Bimer B. Status, Comptroller General.

Organisation Concorned: Atomic Energy Commission; Tennessee Valley Authority; Breeder Reactor Corp.; Project Management Corp.; Commoowealth Edison Co.

Congressional Relavance: Jam Committee on Atomic Energy. Authority: P.L. 91-273. P.L. 92-84.

In response to concerns expressed in a GAO report and by the Joint Committee on Atomic Energy, the Atomic Energy Commission (AEC) submitted changes to proposals for a concernitve arrangement with the Project Management Corporation, the Tennessee Valley Authority, and the Breeder Reactor Corporation for carrying out the liquid metal fast breeder reactor demonstration project. Findings/Conclusions: A proposed contract provides for an interim management arrangement and another arrangement to operare after legislation permits AEC board representation. The contract would allow majority decisions of the steering committee to be final under certain conditions, but does not specify application of conditions. Concerns were expressed about legal questions involved in provisions for referral of actions by the Project Management Corporation to heads of agencies and in having AEC employees acrve on its board. Some changes were proposed for responsibilities for technical supervision of the nuclear steam supply system to must objections to lack of ABC centrol. GAO believes that modifications to standands for this system should require ABC approval. Language should be clarified in provisions for fundion certain unallowable costs and relating to interest from investment. It was suggested that AEC should have greater control over indemnity and that modifications are needed with reference to costs of termination. (HTW)

034

Improvements Heeded in the Program for the Protection of Special Nuclear Meterial. B-164105. November 7, 1976. 34 pp. + 3 appandices (18 pp.).

Report to the Congress; by Elmer B. Stants, Comptroller General.

Organization Conternad: Atomic Energy Commission-

Congressional Relevance: Congress.

Authority: Atomic Energy Act of 1974, as amended (42 U.S.C. 2011; 42 U.S.C. 220(i)) 10 C.P.R. 73. AEC Manual Appendix 2401. AEC Manual Appendix 2405.

A review of in-plant protection systems of three licensed contractors holding appelel opclear material (SNM) disclosed a need for the Atomic Energy Commission (AEC) to strengthen its program to protect SNM. Findings/Conclusions: A number of deficiencies significantly limit the plants' capability to prevent, detect, and respond to a possible diversion of material: weak physical security barriers. ineffective guard patrols, ineffective alarm system, lack of automatic detection devices, and lack of planning in case of diversion of material. There are differences in security requirements on licensect and those on contractors, the latter being less stringent. Inspection responsibility was divided, and inspections were made only to determine compliance with AEC requirements and not to determine the overall effectiveness of the protective system. Recommendations: AEC should: issue the proposed changes to its protection requirements; refine the expected capability of a protection system for the complete security of SNM and uperade the requirements to the extent nocessary; impose the same protection requirement on licensees and contractors holding unclassified material or justify the differences; and improve inspection as plauned, by conducting one overall evaluation of protection measures at licensee/contractor plants for classified and unclassified material, and by developing new inspection procedures which emphasize evaluating the effectiveness of protection at licensed facilities. (Author/DJM)

635

Protecting Special Nuclear Material in Transit: Improvements Made and Existing Problems: B-164105. April 12, 1974 17 pp. + appendix (1 pp.).

Report to Rep. Melvin Price, Chairman, Jont Committee on Atomic Energy; by Elmer B. Statts, Comptroller General.

Organization Concorned: Atomic Energy Commission

Congressionel Relavances: Joint Committee on Atomic Energy. Authority, Atomic Energy Act of 1954, ss amended (42 U.S.C. 2011), 42 U.S.C. 2201(b). 10 C.F.R. 73, 10 C.F.R. 70.12, AEC Manual Appendix 2401, AEC Manual Appendix 2405,

The protection given unclassified and confidential special nuclear material (SNM) while in transit, specifically three large shipments shipped by truck or held at an airport in September and October 1972, was inadeduate and the material was susceptible to a diversionary attenue. Finding/Conclusions: The Atomic Roscay Commission has been slow to adequately protect SNM in transit. A few of the deficiencies observed in transit included: a sole unarmed driver. open cargo area on truck, no periodic call-in, casily duplicated seals on containers, easily portable containers, and the use of regular common carners. Since December 1972 the AEC has taken important new steps in its safeguard program. Recommendations: AEC should make a detailed study of the feasibility of mine Government, operated or controlled (licensed) transportation systems for the shipment of SNM. The Joint Committee on Atomic Presey should consider amending the Code to give the AEC the authority to predetermine the trustworthiness of the vehicle drivers and ecourting much (DIM)

[Energy Efficiency of Nuclear and Conventional Fuels Used to Produce Electricity]. B-178205. May 20, 1974. 3 pp.

Report to Rep. Pierre S. du Pont; by Robert F. Keller, Acting Comptroller General.

Organization Concurred: Atomic Energy Commission. Congressional Relevance: Rep Pierre S. du Pont.

The Atomic Energy Commission (AEC) uses large quantities of eloctricity to operate its facilities for enriching uranium for nuclear weapons and for nuclear power reactor fuel. Pledings/Conchasions: Statistics for 1967-1973 for electricity and to earlich amplian for power uses and the amount of electricity produced by nuclear reactors indicate a steady growth in the nuclear nearer industry. These statistics are not a reasonable measure of the energy efficiency of nuclear fuel. One way to measure energy efficiency is to subtract the electricity required to produce the fuel from the total electricity produced, which shows that wranings is the least efficient means Another way is to compute the quantity of raw material needed to produce a given amount of electricity, by which measure a ton of uranium ore yields over 35 times the electricity of a ten of coal. Anticipated future developments such as new processes for enriching uranium and the use of plutonium will increase the ratio of ejectricity produced by reactors to the electricity used to produce the unanium. (DJM)

037

[Patter Structure of the Uranium Earlchment Industry], B-164105. June 26, 1974, 9 pp.

Tenimary before Joint Committee on Atomic Energy; by Elmer B. Staata, Comptroller General.

Congrassional Ralevance: Joint Committee on Atomic Emergy. Authority: Government Corporation Control Act (31 U.S.C. 841). B-114858 (1974).

issues related to establishing a Government-owned corporation for accomplishing national uranium earlichment objectives were discussed. Early transfer of the three existing enrichment plants to private ownership would be less favorable than continued Governmunt ownership. Because of funding delays from the budgetary process. Congress should consider a solf-financing arrangement for an encichment program if Government ownership is to continue. Manapement of the uranium enrichment activity should operate as a business-type enterprise, and an independent Government corporation is a way of providing the necessary flexibility. Treasury borrowings are the most common financing measure used by Government corporations. The return to the Government of the full investment value in the existing plants should receive careful attention. Barning power of the plants is the best method of fixing economic value of plants. Some of the advantages of operating the enrichment activity as a business-type enterprise under a Government corporation can be achieved through other organizational arrangements. (DJM)

038

[Manpower Needs of the Nuclear Power Industry]. B-164105. July 22, 1974. 4 pp.

Report to Dicy Loe Ray, Chairman, Atomic Energy Commission; by Henry Eschwege, Director, Community and Economic Development Div.

The lask of trailed manywer does not poper to be a serious cause of delys in training movies powerlash into operation. Findings/Confutations: Representatives of the nuclear power industry found he gravated difficulty in obtaining expinent with nuclear experience, such as those in the quality namenear area, and serial skilled arithmen, such as physicisms of vields. The representatives stated almost maniformally that they expected shortware of Some these no reverse und Mortanes Include extindibute training Some taken so reverse und Mortanes Include extindibute training contrast for sufficient endotress, no contrast presentem for endotress and devolution of the sufficient endotress preprinters, and when possibility using more tunitediants to perform sufficient endotress preprinter and the sufficient endotress preprinter support of the sufficient endotress and the sufficient endotre support of the sufficient endotress and the sufficient of the ATC and the Performance and the submitted endotress and the sufficient support of the sufficient have been promotively of the ATC and the Performance and the submitted endotress and the sufficient submitted the sufficient have been promotively of the ATC and the Performance and the submitted endotress and the sufficient submitted the sufficient submitted endotress and the sufficient sufficient submitted endotress and the sufficient sufficient sufficient sufficient submitted endotress and the submitted endotress and the sufficient submitted endotress and the sufficient sufficient sufficient sufficient sufficient sufficient endotress and the sufficient sufficient sufficient sufficient sufficient sufficient sufficient endotress and the sufficient sufficient

031

[Security Systems of Commercial Nuclear Powerplants]. B-164105. October 16, 1974, 5 pp.

Report to Dizy Lee Rsy, Chairman, Atomic Inergy Commission; by Henry Eschwege, Director, Community and Economic Development Div.

Concern has been expressed about security systems at nuclear nowornlants: the consensus is that security throughout the industry needs to be improved. Findings/Conclusions: The following were noted during site visits to several nuclear powerplants; unlighted protected-area perimeters, unlocked outside doors, lack of intrasion slarms, and matroand statchman. Security systems at Atomic Energy Commission (ABC) licensed plants could not prevent a takeover for sabotage by a small number of armed individuals. According to offcials, the used-fuel storage facility at a nuclear powerplant is more accessible and valuesable to ashotese than is the reactor core. ABC licensons have not been given guidance on the difference between threats pased by small groups of individuals and those cased by trained paramilitary groups. AEC's review and approval of licensee's proposed security systems are not based on specific performance criteria; without such criteria, there is no way to measure the effeotiveness of the licensees' total security systems. Recommendations: The AEC should clarify the differences between assaulta by small groups of individuals and by paramilitary groups and clarify the Government's responsibility for protecting nuclear powerplants against sabotage by paramilitary groups. ABC should also dotermine what additional interim security systems requirements can be established to strengthen licensees' security. (RRS)

240

Problem Areas Which Could Affect the Development Schedule for the Clinch River Breeder Reactor. Documber 1974. 13 pp. Staff study.

Organization Concernad: Atomic Energy Commission.

One of the principal objectives of the Clitch River Breeder Reactor (CRBR) project is to verify that broader reactor powerplants can be licensed for commercial operations. The Atomic Baergy Commission (ABC) regulatory organization's licensing schedule calls for a pre-application review of CRBR project Information including site suitability, environmental, and safety information. Findings/Conclauters: Problem areas of the project which could affect schedules and costs are: (1) slow progress in tracsmitting occessory design information to AEC's regulatory organization; and (2) a difference of opinion between the regulatory organization and CRBR project participants concerning ABC's efforts to resolve a safety issue. The regulatory organization's 14-month review schedule was contingent upon receipt of high quality, adequately documented safety information, and carly identification and resolution of key safety-related design lasues. An AEC Commissioner expressed concern shout the timpliness and quality of information being submitted. An unresolved safety issue was whether the CRBR will be designed so that It will acceptably accommodate the consecurnces of a core disruptive accident. The regulatory organization held that such an accident. had not been proved incredible. The project participants held that it was incredible and that additional features to accommodate such an accident were not associat. The regulatory organisation believed that AEC's current research porgrams might not be sufficient to resolve this question. Means were being sought to resolve the asfery problem and to improve the quality of information. (HTW)

641

Fast Flux Test Facility Program. January 1975. 33 pp. Staff study.

Organization Concerned: Atomic Entryy Commission-

The Atomic Protect Commission's (ARC) Past Flux Test Pacifity (FFTF) is being planned as a key testing facility for fuels and materials used in liquid metal fast breeder reactor programs. Findings/-Conductors: Since concretational authorization in July 1967, the estimated obst of the scores has store from \$27.5 million to \$426 million Current estimates may again have to be increased because of higher escalation rates than entiripated and because of ingrourate estimating, design changes, inadequate scope definition, changes in standards, and schedule delays. AEC's estimated date of completion of the FFTF has slinged 5 years to November 1917 and forther slippage optid result of severe problems are encountered. A number of design changes have been made since authorization. Including combining examination and maintenance facilities, but AEC officials believed these characes have not adversely affected performance characleristics of the facility. GAO was unable to determine the full impact that changes could have on the schedule but believed they could be substantial Recommendations: Congress should consider requiring that AEC's supporting cost and schedule estimates her (1) complete as to the inclusion of all mater associated period coats: and (2) based upon relatively firm designs. The Joint Committee for Atomic Borrey should consider and orige with the AEC the desirability of adding scoarate examination and montenance facilities (Author/HTW)

042

Operating Cost and Environmental Radiation Monitoring at the Shippigport Assents Power Station, RED-75-325; B-164105, January 13, 1975. 19 pp. + atoendoos (2 pp.).

Report to Sen. Richard S. Schweiker; by Elmer B. Staats, Comptroller General.

Organization Concerned: Duqueson Light Co., Pittsburgh, PA. Corgenuisenel Relevance: Son Richard S. Schweiter,

The Shiroingsort Atomic Power Station, mintly owned by the Federal Government and Duqueson Light Co., was the first target ouclear powerplant in the United States. It is prenarily a research and development facility, but began generating electricity for commercial sale in December 1957. Findings/Conglutions: The total Generament cost for Shuttingport is estimated at \$596.9 million thermals fiscal year 1980. Government cost has been partially offset by \$20.3 milton in revenue from the sale of steam to Doquetne through fiscal year 1974 In 1973, Sheppingport produced 1.4% of Duquesne's total electricity. The cost of this electricity to Destructor represented 1.7% of the total cost of electricity produced that year. The sale of steam has not provided Duquesne with any significant occountie advantage because the amount of electricity produced by steam from Shippingport is a relatively small part of Doquerne's total production and because the unit cost to produce electricity at Shippingport as higher then the average unit cost to Duquesne at its other facilities. The environmental radiation monitoring in the Shippingport area has not been extensive enough to determine whether hazardous radiation levels exist in the area. A consolidated monitoring reogram is being developed by the Atomic Energy Commission and the State of Pentavivania which should improve monitoring in the Shippingport area. (Author/OM)

10

43

Sepanyah Nuelaar Plant. March 1975. 36 pp. Staff study.

Organization Conserved: Environmental Protection Agency; Nuclear Regulatory Commission; Tennessee Valley Authority. Authority: Energy Reorganization Act of 1974 (P.L, 93-438).

Review of the design and construction of the Sepanovah Nuclear Plant by the Tennessee Valley Authority (TVA) indicated that it might be possible to reduce or avoid some modifications to nuclear powerplants if the Nuclear Regulatory Commission (NRC) maintained surveillance over critical features of a plant's design during the internal hatman its two results random which more shout 42 months apart in the case of the Sequevah plant, Except for safety, its main somesm should be to assist the utility in avaiding foture increased costs and delayed schedules. Findlegs/Conclusions: An increase in cost estimate of over 100% from 1968 to 1974 was attributed to changes during construction, inflation, higher interest, and schedule delays. TVA's estimates for start of commercial operation slipped about 40 months because of unrealistic time assessments. Sequevah's power output will be only slightly reduced in spite of engineering changes, but other safety-related changes which may become necessary may restrict its capacity. Concurrent design and construction of nuclear plants is a normal industry practice, and plants are often custom designed, making an extensive NRC review necessary to ensure public health and safety. Recommendations: The NRC should re-examine its licensing review procedures and practices with the objectives of maintaining surveillance over nuclear plant designs during the interval between its two regular reviews. particularly in the case of designs prepared concurrently with construction, and of finding ways to provide concurrent assistance to utilities in order to reduce costs and maintain schedules. Congress may wish to continue reviewing the advantages and disadvantages associated with standardization and pre-selected plant sites and to consider appropriate legislation to help roduce nuclear plant lead time (SC)

044

Comments on Energy Research and Development Administration's Proposed Arrangement for the Clinck Blive Bireder Rescier Desconstration Pieter Project. RED-75-561; B-164105. April 4, 1975. 14 pp. Report to Stm. John Pusstere, Chairman, Joint Committee on Alomio Energy; by Blinter E. Statas, Computation Constraints

Organization Concurred: Energy Research and Development Administration; Atomic Energy Commission; Project Management Corp; Commonwealth Editors Co.; Tenessers Valley Authority. Congressional Relevance: Jost Committee on Atomic Energy, Authority: P. L. 91-273. 5 USC, 2 (2) (56).

The Energy Research and Development Administration (BRDA) submitted legislation to the Joint Committee on Atomic Energy unorbing major revisions to the subhorization for the Cliench River Breeder Resctor Demonstration Flant project along with proposed estrages to the existing underlying documents forwring the to order.

Findings/Conclusions: Utility participants will be allowed to withdraw their support from the project if there is a disagreement over major changes in reference design and specifications. This could abow the utility participants to terminate their involvement over design changes which may be brought about by actions of the Nuclear Regulatory Commission. The documents submitted by ERDA do not clearly delineate the manner in which the project will be managed. They contain ambiguous and sommingly inconsistent language regarding responsibilities and management. It is not clear whether the legislative history authorizing the project supports the ERDA view that the Government's share of the total project cost is now suthorized and that the proposed legislation would continue such authorization by virtue of one of the underlying documents before the Joint Committee for 45 days, as required by the basis enabling legislation. The proposed legislation seeks spending authority, however, for only one year. (Author/OM)

Citetion Section

The Liquid Metal Fast Reader Resetue Program, Past Present, and Fature, RED-75-352; B-164105. April 28, 1975. 44 pp. + appendices (22 pp.).

Report to the Congress; by Elmer B. Staats, Comptroller General.

Organization Concerned: Energy Research and Development Administration; Atomic Energy Commission. Coppressional Reinvance: Congress.

The liquid metal fast breeder reactor (LMPER) is a high priority energy program because a breeder reactor can create more fuel than Findings/Canclusions: Since 1468 the expected costs of the LMPRR program have increased by \$5.8 billion, \$3.5 billion of which the Paerey Rescarch and Development Administration (ERDA) attributes to inflation. In addition to Federal funding of the breeder reactor, over half a billion dollars of private funds have been or will be spent over the next 5 to 10 years to develop the breeder repoter and build a demonstration plant. The overall breeder reactor program consists of six major program areas, each of which contributes an important element of technology. There are 22 major facilities in use or being built in support of the program, ERDA management problems in the breeder program brought about the development of a new management system which, if properly implemented, should reasonably assure that ERDA will have greater visibility over the LMFRR program. The management of the demonstration plant project remains sumbersome. Federal funding for breeder reactor development was 40% of the total energy research and development funding in 1971 and should be 26% in 1976. There are high priority breeder programs in five other industrial nations; France and the Soviet Union have the most advanced of them.

Recommendations: If the Congress wants to know whether greater reliance can be pisced on the use of foreign LMPBR technology, it abould explore with ERDA in greater depth the advantages and dividvantages of using such technology. (Author/OM)

[Liquid Metal Fast Breeder Reactor Program-Past, Present, and Pature]. April 30, 1975. 9 pp

Tentmony before Joint Economic Committee; by Eimer E. Staats, Comptroller General.

Organization Concerned: Energy Research and Development Administration; Atomic Energy Commission. Congrassionel Relevances Joint Boonomic Committee.

The Clinch River liquid metal fast breeder reactor will be this Nation's first project to demonstrate the value of the bounder concept. and is scheduled to operate by mid-1982. It is hoped that it will lead to a strong, competitive, commercial breeder industry. The first large commercial breeder will begin operating in 1987 according to the Energy Research and Development Administration. Total expanditures through fiscal year 1974 were \$1.8 billion, with estimated additional funding of \$5.9 billion needed through 2020. A number of major facilities will be built to support the project, costing about \$3 billion or 30% of total costs. These of the most important powerplant projects have experienced large cost increases and schedule delays. Estimated costs for the Clinch River demonstration plant itself have increased from \$699 million to \$1.7 billion from 1973 to 1975, and the start up has been delayed from 1980 to 1982. (DJM)

Cost and Schedule Estimates for the Nation's First Liquid Metal Fast Breeder Reactor Demonstration Powerplant. RHD-75-358: B-164105. May 22, 1975. 33 pp. + appendices (15 pp.).

Report to the Congress; by Elmor B. Staats, Comptroller General.

Organisation Concernade Receave Research and Development Administration; Tennessee Valley Authority; Ecceder Reactor Corp.; Project Management Corp.; Commonwealth Edison Co.; Nuclear **Regulatory** Commission

Congressionel Ralevonce: Congress. Authority: Energy Reorganization Act of 1974 (P.L. 94-438).

The cost and schedule estimates for constructing and operating the Nation's first liquid metal fast breeder reactor demonstration plant, the Clinch River Breeder Reactor Project, merit review because of: the importance of the liquid metal fast breeder reactor program to the Nation's future energy posture; the contribution the demonstration powerplant is expected to make in providing data on the economic and environmental value of the liquid metal fast breeder concept; the significant Federal funds involved; and congressional concern over increases in the estimated cost of the project.

Findimen/Conclusions: It was not possible to determine which of the project construction and operation cost estimates, \$2.1, \$1.5, or \$1.7 billion, was more accurate, because the project was only in to early design stage; the project was a first-of-a-kind and sufficient and useful data were not always available to develop firm estimates: professional orgineering judgment was a factor in estimating project costs; cost escalation for a long-term project is very speculative; and failure to meet the schedule could increase cost. Project participants identified several potential problems that could lead to schodule delays. They include: failure to receive adecuate funding; delays in the licensing process; delays in delivery of long-loadtime material and components; unavailability of craftsmen; and major design changes. The Energy Research and Development Administration has estimated that early delays in the project could cause an increase in the project cast of about \$10 to \$15 million for each month of delay. (Author/OM)

Efforts to Deniep Two Nuclear Concepts That Cauld Greatly Improve This Country's Future Energy Situation. RED-75-356; B-164105. May 22, 1975, 37 pp. + appendix (1 pp.).

Report to the Congress; by Elmer B. Stants, Comptroller General.

Ormanisation Concernad: Energy Research and Development Administration.

Concessional Baltyance: Constant

Two muclear concepts-fusion and laser incrote separation-hold great promise for improving the energy situation in this country.

Findimer/Conductory These approaches could produce electricity with fuel that is virtually inexhaustible and enrich uranium cheaply and with less every than at present. Fusion efforts by either of two methods (magnetic or inertial confinement) are managed by two separate divisions of the Energy Research and Development Administration (ERDA) with different management philosophies. Laser isotope separation offers tremendous advantages over the gas diffusion process-less than 10% of the cost to build and only 5% of the cost to operate, with additional savings from greater enrichment. potential. Early private involvement in developing and demonstrating the economic feasibility of laser fution could expedite this Nation's energy goals. Greater funding is necessary. The Atomia Energy Commission would accelorate development if funding were available and a principal program manager could be secured to administer the program, (DJM)

The Linuid Metal Fast Reeder Reactor: Promise and Uncertainities. OSP-76-1; B-164105. July 31, 1975. 95 pp. + 8 appendices (49 FR.).

Staff study the Congress; by Elmer B. Stasts, Comptroller General.

Orgenisation Concerned: Energy Research and Development Administration; Atomic Energy Commission; Federal Entrgy Administration.

Congressionel Relevence: Congress.

Authority: Geothermal Energy Research, Development, and Demonstration Act (P.L. 93-410), Solar Heating and Cooling Demonstration Aut of 1974 (P.L. 93-409). Energy Reorganization Act of 1974 (P.L. 93-438).

Development of the liquid metal fast breeder reactor (LMFBR) is one of the Nation's high neighbor energy research and development. projects and one of the most controversial projects. Findings/Cancharicen: Critical uncertainties surround questions of: future electrical needs; how much outlear fission will be needed; amount and price of recoverable vratium; economic feesibility of LMFBRs; eovironmental, safety, and safeguard concerns; and foreign programs and their implications for the United States. The United States should not shandoo the LMFBR restarch and development effort at this time. The program should be understood for what it is-a research and development program. It is not reasonable to attempt to accelerate the program's schedule. Problems of nuclear safety and safeguarda exist for foreign governments as well; they will not go sway, but must he resolved isvorably. The most logical course of action is to continue the research and development program for the LMFBR, and at some point in the future decide whether to commit the Nation to it. Recommendations: The responsible Federal agencies, (Energy Research and Development Administration, Nuclear Regulatory Commission, Environmental Protection Agency) and the Congress should obtain adequate information on domestic wranium resources: resolve environmental and safety questions; establish permanent underground storage for wastes; improve knowledge of and cooperation with foreign efforts; research the environmental and health aspects of coal use; and improve projections of demand for electrical energy. Congress should periodically reassess the Nation's major energy options. (Author/DJM)

650

Selected Aspects of Nuclear Powerplans Reliability and Economics. RED-76-7; B-164105. August 15, 1975. 3 pp. + 5 appendices (25 pp.).

Report to Sen. Lee Metcalf, Chairman, Senate Commutee on Goverament Operations: Reports, Accounting and Management Subcommittee by Elmer B. Staats, Connetroller General.

Congressionel Relevance: Sensir Committee on Government Opersticas: Reports, Accounting and Management Subcommittee

Inccir Reports, Accounting and whitegeneer subcommittee Artherity: Price-Anderson Act, as methode (PL, 82-256) Private Ownership of Special Nuclear Matemals Act of 1964 (P L, 88-489) Atomic Energy Act of 1954 (42 U.S.C. 2210), PL 51-560, S. 2035 (94th Conc.).

The Borczy Retearch and Development Administration (ER DA) and others believe that success power can provide more than half of the Mational electricity by the end of the contary. As of June 1975, 53 authors powerplants were located for commercial operation and sociarited for thost 7.7% of the United States' electricited espacity.

Radge Controllete Oracity, each powerpass have at the end of the set of the set of the set of the set of the end set of the met of the set of t

051

[Nuclear Regulatory Commission's Program for Evaluating Environmental Impacts of Construction and Optention of Nuclear Powerplants]-October 22, 1975. 4 pp.

Report to Lee V. Gasslek, Executive Director for Operations, Nuclear Regulatory Commission; by Gersld H. Elsken, Austrant Director, Resources and Economic Development Div.

Authority: National Environmental Policy Act of 1967

A review of the Nuclear Regulatory Commission's (NRC) program for evaluating the environmental impacts of the construction and operation of nuclear nowernlants revealed specific needs. Findlege/Conclusion: In the past, many unsuitable or unrealistic sites have been suggested as locations for eacher power plants because of environmental or economic criteria. Commission personnel have no guidelines to verify amilconts' data and there are differences among NRC staff concerning the need to do so. Licensets are required to implement their environmental protection plans, and enforcement actions are recommended where needed, but these procedures were not stollied to 55 projects which shready had construction permits. Personnel of the NRC can improve their independent reviews of impact reports. Recommendations: NRC should combinize to applicants that only realistic sites should be chosen and evaluated develop systematic procedures for identification and verification of environmental data critical to the acceptability of proposed projects; inspect projects not covered by revised procedures for monitoring environmental protection activities to ensure compliance and periodically monitor such activities throughout construction. (Author/DJM

052

Energy Research and Development Administration's Contingency Plor for More Enrichment Capacity at Pressworth, OH]. RED-76-55; B-159657. November 28, 1975. Released June 22, 1976. 4 pp. + exclosure (3 pp.).

Report to Sen John O. Pastore, Chairman, Joint Committee on Atomic Energy, by Elmer B. Stasts, Compiroller General.

Organization Conserved: Energy Research and Development Administration.

Congressional Eslevence: Joier Committee on Atomic Energy. Authority: Nuclear Puel Assumance Act of 1975

The Energy Lenser, and Development Administrations (ERDA) conceptory the conversion administration for experimental administration of the second second administration of Personand Parallelines (2019). Biology Conversion The Parkments, Chan, Spring Independent and Spring Independent Conversion of the second SPT design Arguer (PTI. The second second second second SPT design Arguer (PTI. The second second

053

The Evaluation of the Administration's Proposal for Government Assistance to Printle Uranium Enrichment Groups, December 10, 1975. 16 pp.

Testimory before Joint Committee on Atomic Energy by Elmer B. Staats, Comptroller General.

Organization Concerned: Energy Research and Development Administration; Uranium Enrichment Associates, Congressional Relevance: Joint Committee on Atomic Energy.

Authority: Nuclear Fuel Assurance Act of 1975.

Since 1991 the Ensentive Remach has recovaryed private indutive involvement in arrainal commonsent. The Administration's proposed Nuclear Fool Answance Act would authorize the Escryp Research and Development Administration (GRDA) be certor into ecoperative arrangements with an many private firms that with to Datil, own, and openet enrichment prioras the ERDA Achimistrator belows necessary to develop a competitive isdustry authorize RDA to provide windows subtances and supervises limit the Government's total potential liability to \$8 billion in the event the private ventures fail: authorize ERDA to start construction obtaining and design activities for extranding one of the Government's existing plants as a contingency measure; and provide for congressional review of the basis for the cooperative arrangements. There should be a serious effort made to "privatize" the gapcous centrifuge unanium enrichtient process. The use of a Government-assisted Linguium Frarichment Associates plant to demonstrate the success potential of such an effort would not be as effective if the plant is of the more antiquated gaseous diffusion type. The Congress should consider authorizing ERDA to construct the next increment of the earlieb. ment capacity utilizing the proven enrichment process; establishing a self-financing Government corporation to manage ursaism enrichment facilities; and legislatively authorizing ERDA to enter into cooperative agreements with private enrichers using advanced technologies. (QM)

Bellefonte Nuclear Plant, PSAD-76-86, March 1, 1976, 37 pp Staff mudy by Richard W. Gatmann, Director, Procurement and Systems Acquisitions Div.

Orgenization Concerned: Tennessee Valley Authority; Nuclear Regulatory Commission.

The Tennessee Valley Authority (TVA) has one of the strongest commitments to nuclear power of all U.S. utility systems. Construction on Bellefonte, TVA's fourth nuclear powertiant, was about 6% completes as of August 31, 1975. The Nuclear Regulatory Commission (NRC) is responsible for licensing and related regulatory functions that assure safe operations of nuclear powerplants.

Findings/Conclusions: In August 1975, TVA completed a preliminary detailed construction estimate for Bellefonte totalling \$1.2 hillion, an increase of \$550 million over the original estimate caused by Inflation, schedule delays, higher interest costs, and additional construction man-hours. TVA estimated a schedule delay of 35 months from its original construction schedule. In building powerplants, TVA overlaps the design and construction schedules so that some construction occurs during a plant's design. TVA forecasts electrical demand annually to assure that it will have the generating capacity to meet future demands. Future TVA forecasts of electrical demand will determine whether the preliminary 1975 forecast of lower demand is an aberration or a new trend in electrical demand. Recommendations: TVA should continue in its efforts to reduce the amount of concurrency in the construction of its nuclear plants. The Conareas may wish to be kept informed of the latest electrical demand forecasts and trends in connection with requirements for additional nuclear powerplants. (Author/QM)

Development of Interagency Relationships in the Regulation of Nuclear Materials and Pocifiller, RED-76-72; E-92288. March 10, 1976. 20

Report to Seo. Abraham A. Riblcoff, Chairman, Senate Committee on Government Operations; by Elmer B. Staata, Comptroller Genccal.

Organization Concerned: Energy Research and Development Administration; Nuclear Regulatory Commission.

Congressional Relavance: Strate Committee on Government Operations

Authority: Energy Reorganization Act of 1974 (42 U.S.C. 580I). Export Reorganization Act of 1976; S. 1439 (94th Cong.). Atomic Boergy Act of 1954

The Energy Reorganization Act of 1974 assigned certain functions related to the development of various energy sources and the regulation of atomic energy and other uses of radioactive materials to the Energy Research and Development Administration (ERDA) and the Nuclear Regulatory Commission (NRC). Interagency agree-ments, measurands, and other understandings have been negotiated between the two agencies. The agreements and memoranda on research and technical assistance, international and domestic safeguards, and safety reviews of ERDA's reactors are directly related to NRC's erincipal functions and responsibilities for research, salegrands, and reactor safety. Findings/Canclasions: The agencies have not formally agreed to detailed operating procedures for ornducting NRC's research nor have they agreed on procedures for prompthy proplying disagreements between them. Until such procedures have been formally spreed to, there could be an adverse impact on NRC's research program. NRC is limited in its shility to make an independent regulatory evaluation of whether an export would be harmful to the common defense and security of the United States. NEC has not agreed to any characte in its respensibility for establishing and evaluating domestic safeguards for mixed facilities. The proposed interagency agreement with ERDA on use of the New Renewick Laboratory gives NRC control over analyses of its areais. nuclear materials, and NRC has agreed to determine its fair share of support for the laboratory beginging with fiscal year 1977, Reconverdetions: The agencies, In all negotiations on NRC's use of ERDA's facilities and technical expertise, should spree to detailed procedures for conducting the research or technical assistance project and to detailed procedures for promptly resolving disagreements between them. The agencies should also develop an interazency agreement under which NRC personnel would regularly participate in inspections of the physical security measures to be applied to U.S.-supplied modear materials, equipment, and facilities in importint countries. (Author/OM)

[The Energy Research and Development Administration's Propos Contract with Project Management Corporation, Commanwealth Edison, and the Tennessee Valley Authority1, B-164105, March 26, 1976, 9

Report to Rep. John E. Mogs: by Bimer B. Steats, Comptroller Geners).

Organization Concurred: Project Management Corp.: Commonwealth Edison Co.; Tennessee Valley Authority; Energy Research and Development Administration; Breeder Reactor Corp. Congressional Relevances Rep. John E. Moas. Authority: 5 U.S.C. 2105(s).

The Energy Research and Development Administration's (ERDA's) proposed modified contract with Project Management Corn. Commonwealth Edison, and the Tennessee Valley Authority would shares the present arrangement for designing, constructing, and operating the Olloch River Breeder Reactor Demonstration Plant by giving the energy agency, rather than the corporation, overall management responsibility. Findings/Conclusions: The energy agency's insbility to obtain, during the negotiation process, the corporation's agreement on more specific language defining the role that the corporation's board of directors will have in managing the project and shat any design change required for licensing would not be a basis for project termination could cause serious problems if the energy agency attempts to exercise its management prerogative during performance of the contract. The proposed management arrangement. also could lead to a situation where the private employees are being directly supervised by Federal employees in their daily project do ties. Recommendations: The Administrator of ERDA should negotiste with the other parties to the contract to revise the proposed modified contract so that it; more clearly states the extent of the corporation's involvement in managing the project; eliminates options permitting contract termination because of project delays caused by dealers obvinges to meet licensing requirements; and include, provisions penalizing private participant's employees if they are involved in conflicts of interest, bribery, and/or graft in relation to the project. (Author/QM)

0.57

[Survey of Federal Programs and Policies for Dispating of Obsolete and Universed Nuclear Facilities]. RED-76-102; B-164052. April 9, 1976. 2 pp.

Report to Robert C. Seamans, Jr., Administrator, Energy Research and Development Administration; by Henry Eschwege, Director, Resources and Economic Development Div.

Organization Concerned: Atomic Energy Commission

In some time directed to those para Atendie Energy Committion (AGC) estimitiate for which the disk set initialization is a implemented in a simultaneous to income the set of t

Recommendations: The surveys should be completed as soon as possible ERDA should expedite completion of the surveys so that it can either promptly certify that need of the identified siles represents a radiation danger or begin corrective actions where required. (Author/QM)

058

The Proposed Control for the Clutch River Broader Reactor Project. April 14, 1976. 6 pp.

Teninony before Joint Committee on Atomic Energy; by Paul G Dembling, General Counsel

Organization Concerned: Project Management Corp., Commonwealth Rdison Co; Tennessee Valley Authority; Energy Research and Development Administration; Breeder Resetter Corp Concessional Ralavance: Jowe Committee on Atomic Energy.

The Energy Research and Development Administration's (ER-DA's) proposed modified contract with Project Management Corp., Commonwealth Eduson, and the Tennessee Valley Authority would change the present arrangement for designing, constructing, and operation the Clinch River Brander Reactor demonstration plant by giving ERDA, rather than the corporation, overall management reaponsibility. Despite some confusion in language, it appears that PRDA will have ultimate management restonaibility for the project. Any design charge required for licensing could be a basis for project termination because of the delay such a change might ensuil. The proposed management arrangement, in light of the obvious interrelationships between RRDA and non-Government personnel which will exist, will require close attention to be applied to the administrative serangements, procedures, and policies governing all personnel entrated in the project, ERDA should establish appropriate criteria governing the approval and retention on the project of private parlicipant employees and precise administrative controls over the manner in which Government and private employees relate to each other. (OM)

0.59

This Country's Most Expensive Light Water Recetor Safety Test Facility. RED-76-68; B-164105. May 26, 1976 54 pp. + appendices (22 cp.) and ecologues (185 pp.).

Report to Sea. Abraham A. Ribicoff, Chairman, Senate Committee on Government Operations; by Elmer B. Stasta, Comparoller General.

Organisation Concerned: Energy Resterch and Development Administration; Atomic Energy Commission; Nuclear Regulatory Commission. Congrassional Relavance: Sense Committee on Government Operations.

Authority: Energy Receganization Act of 1974 (P.L. 93-438).

The Loss-of-Pluid-Test (LOFT) facility, this country's most expensive light water reactor sefety test facility, was authorized in 1963. Located at the Energy Research and Development Administration's (ERDA's) Idaho National Engineering Laboratory, it will produce one-sittieth the heat output of a commercial reactor. The facility will study the adequacy of analytical techniques used to evaluate emergency core cooling systems. These systems are intended to prevent nuclear fuel from melting should a reactor lose its normal coolant. Findings/Conclusions: The Nuclear Regulatory Commission (NRC) estimates that the total project costs will be \$350 million. The project redirection (dropping the nuclear fuel meltdown test) and the many design changes to the facility while it was being built were major contributors to the cost overrun and schedule slipcase. Most safety research and development responsibilities have been given to NRC. The LOFT facility tests should indicate the applicibility of small-scale experiments and complex computer analytical techniques in calculating the events during a loss-of-coolant accident, but will not by themselves prove or disprove the actual effectiveness of emergency systems in a commercial reactor. Nuclear consultants did not see any benefits in using the facility to conduct meltdown experiments. Four of the five experts believed NRC should increase its research on meltdowns and three believed that the commercial nuclear powerplant licensing process should not be changed pending the facility's test results Recommendations: The Administrator of ERDA should include, as part of the seminnual report to the Congress on the status of construction projects, total project design and construction cests including that portion funded from the operating appropriation. (Author/QM)

260

[The Safeguards and Security of the Energy Research and Development Administration's Rocky Flats Platonium Facility]. B-183920. June 4, 1976. 4 pp

Report to Robert C Seamans, Jr., Administrator, Energy Research and Development Administration; by Monte Canfield, Jr., Director, Energy and Minerals Div.

The nature of adaptatics and scorely at the Theory Research and Development Advantationation (EDDA) Body Plant Phenoleum environment Advantationation (EDDA) Body Plant Phenoleum EDDA does not require its construction to make curvent analysis and propues Safety Analysis Response (ARA) for existing facilities has disag people and the Advantation of the Safety and Safety and Safety evaluations in a sufferent matter with period SAIs have been completed at Rocky Plants. An IEROA headquarters requirement for addrey evaluations in a sufferent matter with Ray and the public survey of the Safety and Safety and Safety Safety and the public survey of the Safety Safety Safety Safety Safety Safety and the public survey of the Safety Safety

Recommendation: ERDA should develop a uniform and documented system to assure safe operations, identify unacceptable risks, and, where necessary, implement corrective action for all nuclear facilities under its control. (Author/OM)

061

Cortain Actions That Can Be Taken to Help Improve This Nation's Ubanium Picture EM(D-76-1; B-178205. July 2, 1976. 31 pp. + 6 appendices (11 pp.).

Report to the Congress; by Elmer B. Staats, Comptroller General.

Orgonization Concerned: Energy Research and Development Administration.

Congressional Raisvoorer Congress.

Authority: Atomic Energy Act of 1954 (42 U.S.C. 2153). Federal Energy Administration Act of 1974 (15 U.S.C. 761-786). Foreign Investment Study Act of 1974 (P.L. 93-679). 10 C.F.R. 40.

Nuclear power now accounts for about 8% of the total U.S. electrical generating capacity. Uranium to fast nuclear nower may soon he in short supply and actions must be taken to improve its continued needuation Endner/Conclusion: More reliable data occild halp in formulating sound uranium export policies, particularly the amount exported, and the extent and effect of foreign investment to our domestic supply. The Energy Research and Development Administration (ERDA) has already begun action to improve reporting into its management information system, in order to control the original sources and ultimate destination of uranium. It may become necesserve to muse lower deality are renovery of which exald be enhanced by the research and development of new, lower cost technology, Research and development funding is very inadequate. Recommendations: RRDA must collect adequate information from the uranium industry, succlude on a voluntary or mandatory basis, on foreign investment in the U.S. industry and the amount controlled by foreign investors. Congress should require reporting of ERDA's efforts ERDA should also increase funding for uranium mining and milling research and development. (DJM)

062

Shorkowing: in the System: Used to Control and Proter Highly Dangrouw Nather Material. EMD-76-3a. July 22, 1976. 5 pp. Report to the Congress, by Blance B. Stats, Comptroller General. This is an unclussified digest furnished in lies of a report containing classified security information.

Organization Concernsel: Energy Research and Development Administration.

Congressional Relovance: Congress.

The basic systems used by the Energy Research and Development Administration (ERDA) to control and protect nuclear material are: accountability and material control systems for detecting thefts, and physical security systems to prevent or respond to thefts or unauthorized uses. The interaction of these two systems is relied mon at nuclear facilities to proclude the loss or theft of special nuclear material. Fundings/Conclusions: Accurate measurements of materials cannot be obtained because of uncertainties in measurement instruments and difficulties in measuring nuclear materials held up in pipes, mechinery and filters. As a result, discrepancies normally occur between physical and book inventories. ERDA's accountability and material control system contains yaque and outdated requirements which have resulted in inconsistent inspection practices and lack of specific numerical criteria when responding to missing special nuclear material ERDA needs to atrenethen and clarify its existing security requirements regarding the placement of nuclear material detectors and the protection of windows to buildings housing this stecial material. The approv has not communicated effectively to its operations offices and contractors the nature and dimensions of the threat of theft. Physical accurity requirements have not been estab-Taked for unclassified special nuclear materials in quantities smaller than 5 kilograms of enriched uranium and 2 kilograms of plutonium.

Anonemouslawer BEDA's Actinizationar should intendinging and an accounting and annuals county space requirements to application security and an annual source application of the certain levels of ematurement presides, fereing and implement intending presents the version special counter model intending between the version special counter model and another material application model actions of the demonstration and another metric applications and the present and another metric applications and the present of all sources models and the present and the special of all sources models and the present and the special of adaptions and the special source and the present of a special servicy many models and the present of the special servicy models of the present of the special of the special servicy models of the special service of the special servicy models of the special service of the special of the special servicy models of the special service of the special

063

Poor Management of a Nuclear Light Water Reactor Sufety Project. EMD-76-4; B-164105. August 25, 1976. 26 pp. + appendices (8 pp.).

Report to the Congress; by Elmer B. Stants, Comptroller General

Organization Contained: Energy Research and Development Administration; Nuclear Regulatory Commission. Congressional Relayonce: Congress.

The Flower Fill Experiment was a Nuclear Resolutory Commitsion (NRC) repetor safety test project designed to tell NRC whether its beensing regulations for emergency core cooling systems and marter power outruits were too stringent. When the project was cancelled in 1976, it had wasted about \$5 million. Findings/Concissions The Pienum Pill Experiment was plagued by management deficiencies. All parties involved fulled to agree upon firm stogram requirements. This resulted in a detailed design which did not meet NRC requirements. NRC and the Energy Research and Develorment Administration (ERDA) also failed to establish firm baseline designs and to control design changes. The two securies did not adequately define their respective management roles and responsibilities so the project was poorly managed by both. There are some indications that the two spencies are having problems developing suitable arrangements to jointly manage research facilities. GAO is not convinced that NRC's present approach to building another such facility is stund. In fact, NRC is in the act of remeating some of the same mistakes that led to the cancellation of the original project.

Ansamewalian the Columna of NIC should propose at the column of the very setting a second or large the coupled and will as generated the NIC should be the column and will as generated in read-of the NICA for managing to the second second second second second second second the number of the second second second second second the second second second second second second second the second second second second second second second NIC for managing the new Plasmo (10) Regulation is will and NIC for managing the new Plasmo (10) Regulations is will and the second NIC for managing the new Plasmo (10) Regulations is will and Couples to induce second sec

064

Evaluation of the Publication and Distribution of "Shelding Light on Facts about Nuclear Energy", EMD-76-12; B-130961. September 30, 1976. 37 pp. + appendices (14 pp.).

Report to the Congress; by Elmer B. Stants, Comptroller General.

Organization Concernad: Energy Research and Development Administration.

Congrasaionol Relevante: Congrets

Authentyn Friso-Anderson Act of 1937 (PLL 94-197) 42 U.S.C. 2100, Energy Receptination Act of 1974 (PL. 93-43) 42 U.S.C. 5801), Independent Offices Appropriations Act of 1992 (31 U.S.C. 4533), Poderal Regulation of Lebbying Act of 20 (21 U.S.C. 261-270), Tressury, Possal Service, and General Government Appropriation Act of 1976 PL 94-91. IS U.S.C. 1913.

"Stadding Light on Fasts about Nuclear Energy," an Energy Reserve and Development Administration (EDD) synthetics was distributed in EEDA synthesis and constructs its (EEDAs) priorities prime in the State. Exceeding the synthesis and the distribution without and the synthesis and the distribution without and the synthesis and the distribution without and the first synthesis and the distribution without a first first synthesis and the distribution without a first first synthesis and the distribution without and the first synthesis and the distribution without the spatial distribution of the molecular synthesis and the spatial synthesis and the synthesis and the distribution without the spatial distribution of the molecular synthesis and the spatial synthesynt plant construction ERDA did not violate any applicable laws or regulations, with the exception of the Government Printing and Binding Republicos, in publishing and distributing the surrobles.

Recommendations: The BRDA Administrator should sevel applitishing, or station (potents to publicing, additional equipe of "Stackding Lipht on Facts about Nuclear Energy" where significant residue, recover and dentry underkinden doping an writem ERDA offices and participating constructions to assess that the paraphetic into misused again, and publishi the use of disording materials which have not been subjectual to astichted by any series and which have not been subjectual to astichted by automation materials which have not been subjectual to astichted by automation materials which have not been subjectual to astichted by automation of the direct subject and any statements and the subject of the subject of subject and the subject of the subject of the subject of the direct subject of the subject of the

065

Evaluation of the Status of the Fast Flax Test Facility Program. EMD-76-13; B-164105. Novomber 15, 1976. 35 pp. + 2 appendices (3 pp.).

Report to the Congress; by Elmer B. Stants, Comptroller General.

Organization Concerned: Energy Research and Development Administration.

Congressional Relevance: Congress.

Authority: Energy Rosesanization Act of 1974 (P.L. 93-438).

The Fast Flux Test Facility (FFTF) was authorized by Congress in 1957. The PFTF is intended to test surface fuels and materials most and to work safely and commically in future breeder reactors Findings/Conclusions: The Entray Research and Development Administration believes that 37- and 19-pin tests will be adequate for closed loop test purposes; and 37-nin tests will provide valid and useful data for establishing design and operating limits. The construction project is now estimated to cost \$\$40 million instead of the \$87.5 million originally projected, and supporting costs are estimated at an additional \$613 million. More than \$200 million in beneder reactor program costs should also be recognized as FFTF costs. Since suthorization, the project's completion date has been extended by more than 5 years to August 1978. Technical problems with mangr components of the hers transport system remain Recommendations: All baras construction projects must be closely monitored to determine that sufficient design, development, and component testing has been completed. Congress should be provided with a current estimate and breakdown of all costs associated with the FFTF, including the cast of facilities being built or planned that directly support the test program (RRS)

056

Considerations for Commercializing the Logard Metal Fast Breeder Reactor, EMD-77-5, B-164105, November 29, 1976. 61 pp. Report to the Congress; by Elmer B. Stasts, Comptroller Othersi.

Addent to the Congress; by Elmer B. Status, Compresser Others.

Organization Concessed: Energy Research and Development Admenstration.

Congressional Relevances Senar Committee on Public Works; Congress

The liquid metal fast breeder reactor (LMFBR) is regarded as an cisentially meshsustible source of energy. A July 1975 Report by GAO and a subsequent statement by the Administrator of the Energy Research and Development Administration (ERDA) concurred in the opinion that the LMPBR program is still in a research stage, and that in the mid-1980's, a determination could be made about the acceptability of widespread commercial deployment of LMFBRs. The current status of the LMFBR program is reported, along with a discussion of the technical, financial, scheduling, and institutional factors which must be adequately enabled for successful commerelalization. Findings/Conclusions Successful commercialization of the LMFBR will require not only the development of reactor technology but the supporting technologies of fuel febrication, plutonium reprocessing, and radioactive waste dispasal. The year 1990 may be the earliest by which licensibility and routine performance can be demonstrated for all four required technologies. GAO, in a conservative estimate, feels it is most likely that four to six commercial-size LMFBRs could be in operation by the year 2000 if

a decision is made in the mist to late-1980 to commercialize the ALPRR Bitminsch of the applications will be about 3150 billion, measured nui 1974 deliars. Recommendations: The Administrator Distribution and the application of the applica

067

An Unclassified Digest of a Classified Report Entitled "Safety and Transportation Safeguards at Rocky Flats Nuclear Wapans Plant". PMD:77-94. Incomer 11, 1977

Report to Rep. Timothy E. Wirth; by Elmer B. Staats, Comptroller General.

Organization Concerned: Energy Research and Development Administration.

Congressional Relevance: Houre Committee on Interior and Insular Affairs, Source Committee on Interior and Insular Affairs Rep. Timothy E. Witth

Other network of reductive mutation is the Brang Exceeded to Development Advancement (Development) and the Development Advancement (Development) and the Development Advancement Ager/Genetismer Phonologies and are entirely the advancement of the appender entirely and the advancement of the Advancem

Recommendations: ERDA's management should improve subguards to prevent loss of control of radioactive material during transportation. Independent organizations should continuously monitor the plant's release of radiation. (RRS)

068

Finnes of Nuclear Fuel Reprocessing and Disposal of High Level Nuclear Water), January 31, 1977. 13 pp

Speech before California: Energy Resources, Conservation, and Development Commission; by J. Dexter Peach, Deputy Director, Energy and Minerals Div.

Organization Conterned: Energy Research and Development Administration; Nuclear Regulatory Commission

As part of its responsibility for reviewing Federal programs, GAO has been analyzing the Nation's nuclear research and development programs. Major issues facing nuclear fuel reprocessing include: (1) the shillity to protoct and account for special nuclear matarial: (2) concern over proliferation of a nuclear technology which could produce weapons-grade material; (3) the ultimate impact of still evolving regulatory requirements; and (4) the absence of a commercial-sized reprocessing demonstration plant. The Nuclear Regulatory Commission has yet to reach a final conclusion on the environmental acceptability of nuclear fuel reprocessing. GAO has continually monitored Poderal radiosctive waste management programs. A recent public survey concluded that the general public views radioactive waste disposal as the most serious problem connected with nuclear power. The Energy Research and Development Administration has taken action to overcome adverse public reaction by developing a public affairs plan and making plans for earlier involvement of State and local officials in the site selection process. (RRS)

Reducing Nuclear Powerplant Lendtines: Many Obstacles Remain. EMD-77-15; B-127945 March 2, 1977 14 pp. + 2 appendices (4 pp.).

Report to the Congress, by Robert F Keller, Acting Comptroller General.

Organization Concerned: Nuclear Regulatory Commission,

Congressionel Relevances: House Committee on Science and Technology; Senare Committee on Energy and Natural Resources; Congress.

Authority: Energy Reorganization Act of 1974 (42 U.S.C. 5876, 42 U.S.C. 5801), National Environmential Policy Act of 1969 (42 U.S.C. 4321), Federal Water Pollution Control Act Amendments of 1972 (33 U.S.C. 1151).

A review of the Nuclear Regulatory Commission's (NRC) pregram for licensities and operations of suckar powerplants revealed many unselved problems. Utilities need 10 or more years for the completion of the plants, freem the planning phase, through licensity to the high noise of both dimensional to the plant of contributes prevality to the high noise of both dimensional to the plant of contributes prevality to the high noise of both dimensional to the plant of the nuclear plant of the high noise of both dimensional to the plant of the nuclear plant of the high noise of both dimensional to the high noise of thigh n

Heating/Constitution: NEC has charged some advisitation/ proteines and proposed application to reflect advisors. De charge allows construction following completions of a particule of the prevail and the construction following completions of a particule of the prevail model of prevention of the construction of the prevail exception of the construction of the construction of the construction operation of the construction of the construction model on the construction of the construction of the same after (tethological of () control charges). Recommendance The charges of () control charges () prevails of previous () and the construction of () control charges). Recommendance The sharement AVRC sheads were prevailed and the same to longify process. ((177))

070

Issues Related to the Closing of the Nuclear Feel Services, Incorporated, Reprocessing Plant at West Valley, New York, EMD-77-27, B-151475, March 8, 1977 15 pp. + enclosures (34 pp.).

Report to Rop. Leo J Ryan, Chairman, Honse Committee on Gowernment Operations: Conservation, Energy and Natural Resources Subcommittee; by Robert F. Keller, Acting Comproliter General.

Organization Contamed: Nuclear Regulatory Commission; Energy Research and Development Administration.

Congressionel Relevance: House Committee on Government Operations: Conservation, Energy and Natural Resources Subcemmittee. Authority: Energy Reorganization Act of 1974 (42 U.S.C. 5841).

The Nuclear Fuel Services, Inc. (NFS) plant at West Valley, NY. the only commercial nuclear reprocessing facility operated in the United States, was closed in 1972 for modifications almod at limiting effluent releases, reducing personnel exposures to radiation, and increasing plant capacity. Recommendations: To help in formulating an appropriate waste disposal technology for this waste, the Nuclear Regulatory Commission (NRC) should: develop waste performance criteria; develop criteria for docommissioning waste storage facilities; identify alternative processes for waste management and determine their technical and economic feasibility; characterize the physical and chemical properties of this waste sludge; proceed on a priority basis in the current analyses to assess the seismic integrity of the waste tanks; include a review of the stress relieving data in determining tank life to assure that the proper techniques were used; and arress the condition of the yoult system and the surrounding swi character. In addition, NRC should: require New York State to report its plans on the future use of the West Valley size; prepare for NPS and State guidelines for decommissioning the plant and size and require a plan from them for decommission and correcting problems at the low-level waste burial site; and require the State to set up long (erm care rotuinements for the site. (Author/QM)

Energy Digest SEPTEMBER 1977

Inner Reinted to the Cloting of the Nickor Fuel Service, Ior, Representing Plant at West Valley, New York Mirch 5, 1977. 159, Trainineup before the House Committee on Government Operations: Conservation, Energy and Natural Resources Subcarmittee; by Monte Canfille, Jr., Directore, Energy and Mistrala Div.

Organization Concerned: Energy Research and Development Administration; Nuclear Regulatory Commission; Nuclear Poel Services, Inc.; New York: Energy Research and Development Authority.

Congrassional Relevance: House Committee on Government Operations: Conservation, Energy and Natural Resources Subcommittee.

The West Valley, New York, nuclear reprocessing plant operated by Nuclear Fael Services, Inc., was the only commercial reprocessing facility operating in the United States. The plant was closed in 1972. While the Nuclear Regulatory Commission (NRC) believes that the waste tanks at West Valley are in good condition, estimating tank life is an predictable. The waste tanks may not most current NRC selarite criteria. Physical and chemical characteristics of the high-level waste sludge contained in the tanks are not completely knows, and removal of the sludge presents a large problem. Technology is being developed for solidifying and disposing of nuclear waste, but such information will not be scalibble for several years. It is vehicely that the West Valley plant will over operate again because of: (1) substantial nosts (\$615 million) peeded to expand plant reporting and to meet NRC standards; and (2) the plant design may not be susceptible to modifications to lower radiation exposure to workers. No plans have been developed to decommission the West Valley Site: the State of New York is ultimately responsible for matering and disposing of radioactive waste, (RRS)

WHAT WILL BE THE ROLE OF FOSSIL FUELS IN MEETING FUTURE ENERGY NEEDS?

072

Capability of the Naval Patraleum and Oll Shale Reerver to Men Emergency Gil Needs B-65927, October 5, 1972, 44 pp. + enclosorts (14 pp.).

Report to the Congress; by Elmer B. Staats, Comptrollor General.

Organization Concerned: Department of the Interior; Department of the Nevy.

Congrassional Relavance: Congress.

Authority: 10 U.S.C. 7421-38,

The Naval Petroleum and Oil Shale Reserves were established to provide sources of oil for Nevy ships in the event of a crisis in which oil imports would be out off. Their usefulness depends on the Navy's ability to produce significant quantities of oil on short notice and to proserve the oil in the ground until needed by restricting production to a minimum. Fladings/Conclusions: The Naval Petroleum Reserves carability for producing oil for emeratory needs has not bree fully developed. Without additional development which would take time and cost more than \$2 billion, the Reterves could supply only a very small portion of the oil that might be needed in an emergency. Excess production has been necessary at most of the Reserves to provent drainage of oil by adjacent commercial wells. The Oil Shale Reserves were totally undeveloped and their ability to supplement existing oil supplies significantly in the near future was thought questionship. Proposed legislation, calling for production from a Reserve to cover costs of terminating offshore oil leases in the Santa Barbara Channel, would reduce resources in a major oil deposit. Recommendations: The Secretary of the Nevy, with the approval of the President, should determine how much oil the Roserves should be able to produce and how soon it should be available for defense needs and then submit to Congress a plan for adequate development and conacryation of the Reserves. Congress should: (1) evaluate requests that the Navy submits in response to GAO's recommendations; and (2) deliberate on proposed legislation affecting the Reserves. (Author/HTW)

223

Combility of the Neural Petroleum and Gil Shale Reserves to Mart Entergracy Oil Needs May 30 1973 12 nm

Temptony before the Senate Committee on Interior and Inmine AS fairs: by J. K. Fasick, Director, Logistics and Communications Div.

Oramizotion Concerned: Department of the News

Congressional Relevance: Senate Committee on Interior and Institut

Authority: 10 115 C 7421-38 R-66927 (1972)

Executive orders have exablished four naval petroleum reserves and three naval oil shale reserves to recreide sources of oil for naval shirts. Proven recoverable oil in the reserve is about 1.2 billion havrels, whereas all domestic reserves, including the Navy's and Alaska's total about 49,72 hillion harmels Without additional development, the coval reserves could controlute only a small tenouse of oil needed in an emergency. The reserves could not ourrently substitute for oil embargo or military needs in a national emergency, or even do so if fully developed by the mid-1980s The Navy has had to produce oil in excess of what it considers the minimum necessary to maintain the readiness of the reserves. Offset production is carried out at three of the reserves, with leasing and drainage problems to be resolved at the fourth Environmental, economic, and technical factors constrain production of oil shale reserves. The Navy should determine how much oil the reserves should be able to produce, and how soon the oil should be available to meet national defense needs and then submit to Congress a plan for the development and conservation of the reserves. (DJM)

074

Information on the Pressnel Alaska Oil Pipeline, B-174944 June 27, 1973. 24 mp + annendices (2 pp.).

Report to Sen. William Proximite: Rep. Les Auton, by Elmer B. Staats, Comptroller General

Organization Concerned: Alveska Procline Service Co., Department of the Interior: Office of Emerancy Preuaredness. Federal Power Commission

Congressionel Relavance: Sen William Proximire, Rev Les Aspin

Various sources contributed information on the proposed Alaska eiteline, but the information has not been verified Furdway/Cavchoicets: The delivered proces of 26 0-26.9 degree API sweet crude oil as of November 15, 1972 in New York, Chicago, and Los Angeles were \$3.99. \$3.79, and \$3.20 per barrel, respectively. For medium sulphur crude oil, they were \$2 805 and \$3.12 per berrel in New York and Los Angeles, respectively. Percentages of crude oil from foreign and domestic sources used by New York. Chursto, and Los Angeles, refineries, respectively, sizes: 22.0% domestic at \$0.60 per barrel transportation rost (to) and 78.0% foreign at \$0.23 to \$1.09 per barrel se. 91.5% domestic at \$0.125 to \$0.24 per barrel to and 8.5% foreizo. at \$0.46 per barrel to for Canadian oil (other prices not available); and 77.0% domestic at \$0.10 to \$0.60 per barrel to and 23.0% foreign at \$0.44 to \$1.07 per barrel tc. The projected average cost per barrel for Persian Gulf oil delivered to Los Angeles after conversion to 26.0 degree crude was \$2.12. The capital cost for a reinjection plant would be \$175 million with an operating cost of about \$6 million a year Production at the Cook Inlet/South Alaska oil fields will be 100,000 barrels per day in 1980 and 50,000 per day in 1985. (Author/OM)

Problems Counsed by Coal Mining Near Federal Restroyic Projects). B-177092. Occober 2, 1973. 48 pp. + 2 appendices (5 pp.) Report to Rep. Henry S Rouss, Chairman, House Committee on Government Operations: Conservation, Energy and Natural Resources Subcommittee; by Elmer B. Staats, Comptroller General.

Organization Concerned: Department of the Army; Department of the Army: Corrs of Engineers.

Congressional Relayance: Hour Committee on Government Operattony Conservation, Energy and Natural Resources Subcommittee Authority: Federal Water Pollution Control Act Amendments of 1972 (\$6 Stat. \$16). Refuse Act of 1899 (33 115 C 407).

Bight extensive coal mining operations implage on the drainage basics of comparis protects in Kentucky and West Virginia - Findiags/Canclusions: Both the reservoirs' purposes and their environments were adversely affected by the coal mining operations. Major problems seen were: sedimentation buildup, water quality deterioration from acid mine dramage, and exthetic and environmental degra dation. At one protect, Fishtran, Kentucky, extensive mining had nesited its primary purpose-flood control-and cast doubts on its planned benefits The types of estate deeds used to subordinate minstals directly affected the extent to which mining can be regulated on Corps of Rapineers owned land. The general-form estate deed used at Fishtran did not adequately protect the environment. Pending legislation would control surface mining or surface disturbance from deep mining. Recommendationer: The Corns should: revise its regulations for the types of estate deeds to be used to subordinate mineral rights and for factors to be considered when minerals are developed: monitor miners' compliance with restrictions; correct the problem of mining being conducted without Corps approval at Fightrap, and protect Pishtrap from further deterioration of its drainate basin (DJM)

076

Problems Caused by Coal Muning Near Federal Reservair Projects. October 25, 1973. 6 pp

Tentimony before the House Committee on Government Operations: Conservation, Energy and Natural Resources Subcommittee: by Henry Eschwege, Director, Resources and Economic Development

Organization Concerned: Department of the Army, Corps of English peers: Burrau of Reclamatio

Congressional Relevance: Heure Committee on Government Operations Conservation, Energy and Natural Resources Subcommittee Authority: Refuse Act of 1299

Extensive coal mining within drainage basins of water resource projects can adversely affect the projects' surposes and their environments. The master problems noted at eacht projects in the Army Corns. of Engineers' (Cores) Ohio River Division were: sediment in streams and other bodies of water: deterioration of water evality by acid mine drawage, and the degradation of the projects' esthetic aspects and their environments. At one project excessive sediment has hindered the objective of flood control as a result of the Cores' method of acquiring land and subordinating mineral rights which did not adequately protect the project from the adverse effects of mineral develooment. The Corps' ability to regulate mining on lands not acquired for project purposes but within the drainage basins was hampered by deficiencies in relevant legislation and Federal-State conedination. The Corps should revise sts regulations to give adequate guidance in subordinating mineral rights; establish a system for monitoring comphance: take action against minung operations being conducted with. out the Corns' approval; and promptly develop and implement a plan to correct the sediment problem at the aforementioned project. The Congress should consider legislation protecting the Federal investment in reservoir projects, particularly regarding the effects of deep mining, (OM)

Progress and Problems in Developing Nationr and Other Experimental Techniques for Recovering Natural Gas in the Rocky Mountain Area. B-164105. April 2, 1974. \$0 pp. + 2 appendices (3 pp.). Report to the Congress; by Elmer B. Staats, Comptroller General.

Organization Concernade Federal Power Commission; Atomic Energy Commission; Department of the Interlor. Congressional Relayances Congress

Authority: Atomic Energy Act of 1954 (P.L. 83-703; 42 U.S.C. 2051).

The amount of natural gas available and expected to be available is not sufficient to meet current and anticipated demands within the United States through 1990. Large amounts of gas are located in low-permeability or tight geological formations in the Rocky Mountain area in three basing: Orbits River Basin, Wyoming: Piorance Basin, Colorsdo; and Uinta Basin, Utah. Findings/Conclusions: This gas in not considered part of the U.S. reserves because it cannot be recovered economically with conventional techniques. Either guclear stimulation or messive hydraulic fracturing could be used to recover this eas. Both processes are currently under investigation. A third method currently under study is chemical explosive fracturing. Nuclear stimulation field experiments indicate that, in similar geological formations, several times more gas can be recovered over a well's life using nuclear stimulation than can be recovered using conventional techniques. Experiments using the massive hydraulic fracturing technique have not been conducted in the Rocky Mountain formations, and Federal and industry officials are not sure whether this technique can be applied there successfully. Field exneriments with chemical explosive fracturing have not been successfol. Before nuclear atimulation could be used for commercial development of natural gas, Congress would have to enact legislation to allow the Atomic Energy Commission to provide nuclear detonation services to private firms. (SC)

078

Receipt and Coardination of Natural Ges Reserve Date. B-178912. April 30, 1974, 17 pp. + appendices (46 pp.).

Report to Rey, Henry B. Gonzalez; by Elmer B. Staats, Comptroller General.

Organization Concerned: Scoutities and Exchange Commission; Federal Power Commission; Constal States Gas Producing Co. Congressioned Relevances, Ros. Heary B. Gonzalez.

Authority: Natural Gas Act (15 U.S.C. 717g (b)). Securities Act of 1933 (15 U.S.C. 77a). Securities and Exchange Act of 1934 (15 U.S.C. 78a).

A review of gas reserve data handled by the Securities and Exchange Commission (SBC) and the Federal Power Commission (FPC) was directed towards determining what information the agencles receive, whether gas sumplies are verified by PPC when gas sales are approved, and whether efforts of sgencies are coordinated. Findings/Conclusions: Information on gas reserves is required by SEC with registration statements and by FPC in accordance with its Information asthering powers. The FPC's Bureau of Natural Gas is responsible for determining the occuracy of gas reserve estimates presented for certification of interstate cas sales. No estimate was made by the PPC staff of the proportion of approved sales reviewed. but it was believed to be a majority. Coordination between SEC and PPC with respect to gas reserve dats was very limited. Most interagenoy requests involved transmittal of prospectuses by SEC to FPC for review. When discrepancies that could not be resolved were revealed, they were merely brought to the attention of SEC. One such case involved differing estimates of gas reserves claimed by South Texas Natural Gas Gathering Company, an affiliate of Coustal States Gas Producing Company. Recommendations: To assist FPC in review of prospectuses, the Chairman of SEC should direct that FPC be provided with supplementary gas reserve data pertaining to interstate operations. The Chairmen of FPC and SEC should jointly evaluate results schieved from this practice to determine if it should be continued or eliminated. (HTW)

079

Statistical Data on Petroleum and Petroleum Products. B-178205. May 24, 1974. 2 pp. + appendices (38 pp.).

Roort to Rep. Lester L. Wolff; by Robert F. Keller, Aoting Comptroller General.

Orgonization Concerned: Department of the Interior; Department of Commerce; United States Tariff Commission. Congrassional Relayonce: Res. Laster L. Wolff.

In response to a request for information on petroleum products, import and expert data, production and demand data, and reserve and stock data on petroleum and petroleum products when reviewed. The following information was complied: (i) schedules of domestic production, demetic damand, imports and exports for crude poreticus, netenda persicum products, tottal gas, data startal gas indicial (1964) 7173 (2.1) domatici percelutare coaçasty of cardea peteriterius, attantal gas, and attantal gas liquide compared to actual productions attanda on Matech 3, 11, 1073 (3.1) opersivity attantal (3.1) operative attantal and attantal percelutare and attantal (3.1) on of oper performance of percelutare and Dearmine 1, 1972, (3.2) on of oper performance of percelutare and the percelutare of comentar agalaxies may required to a percelutare of percelutariant. Cardina meters agalaxies may require of percelutare in a percelutariant, plastheorizability and attantal percelutariant, plastheorizability and attantal percelutariant, plasheorizability and attantal percelutariant, plasheorizability.

080

Faderal Coal Research-Status and Problems to Be Resolved. RED:75-322; B-182859. February 18, 1975. 82 pp. + appendix (1 pp.), Report to the Congress; by Elmer B. Stasts, Compiroller General.

Organization Concerned: Energy Research and Development Administration.

Congressional Relavance: Congress.

Authority: Energy Reorganization Act of 1974 (42 U.S.C. 5801).

The potential for increased development and use of U.S. cost resource in moreling increased energy demands in grant. Multiput-Cancelarisme: In order for coal to play as important role in meeting, them U.S. energy each, i) research must demonstrate the commercial feasibility of converting coal to other retroes of easypty. I) the coal industry must be willing to finance in the captobe of opplying increasing quantifies of coal and 3) environmental problems to excited with coal supply and use must be realived mixediantly.

Recommediate: The Administrator of the Bergy Reserve both Development Administration (EDA), however, the Wester partness of the Institute, the Polent: Bergy Administration, and down gasesia Invested to cost research, administration, and down gasesia Invested to cost research, administration, and down gasesia Invested to cost research, administration, ancient on the Arrelegoda. Because of potential problem reserve highlight the transformed from the research games to the commendapation of the Polycover administration of the commentation probability the search to the transmit games to the commendation terms of the Interpretent administration of the the search the Improved administration of the commentation of the dist for function cost in costs of the Interpretent administration of the for the Interpretent administration of the Interpretent administration of the dist for the Interpretent administration of the Interpretent administration function costs administration of the Interpretent administration of the search of the Interpretent administration of the Interpretent administration of the search administration of the Interpretent administration of the Interpretent administration of the search administration of the Interpretent administration of the Interpretent administration of the search administration of the Inter

081

Financing Infrastructure In Energy Development Areas of the Western States. August 22, 1975. 13 pp.

Speech before Seminsr on Financing Infrastructure in Energy Development Areas of the Western States, Snowkind, UT; by J. Dexter Peach, Deputy Director, Energy and Minerals Div.

Authenity: Federal Coel Losing Amendments Act of 1975; S. 391. The Outer Continental Shelf Lands Management Act of 1975; S. 321(94t) Cong), The Coastal Zone Management Act Amendments of 1975; S. 386 (94th Cong.), Mineral Leasing Act of 1920. Coastal Zone Management Act of 1972; H.R. 760.

Assuring adequate visibility at the national level to the problems attendant to Rocky Mountain energy resource development is a kny to the political, administrative, and economic feasibility of significant Federal involvement in solution of the problems. The Pederal Govermment must understand that State and local interests desire early, substantive, and real involvement in both the planning and decisionmaking processes of energy resource development. The very specific problem of obtaining adequate funding to offset frost-and impacts of development at the local level is a matter of concern. The correct legislative picture indicates that the Federal Government very likely will assist State and local governments in planning for the impacts of energy resource development. The ways to offset the impacts of such development are much less clear except for a possible increase in the share of muraues produced from Federal leaves distributed to states under the Mineral Leasing Act of 1920. Even the fate of that legislation may be suspect, since the Office of Management and Budgen has traditionally nikes strong positions whitestly construing revenues and could resonanced a version. A bester precessi for brocking State and local government and private ingenesis in energy the Folderal Covernment to a specific instantial regarding development of energy resources in no areas, provide for State and local involvement at the you point in the planeau and decisionmaking ancentary, and provide explicit necessarians for enricing at mattaling version. A second structure of the sectors of all parties involved. (Author/CMM).

082

The Economic and Environmental Impact of Natural Gas Custaliments during the Winter of 1975-76, RED-76-39; B-181503. October 31, 1975. 43 pp. + appendix (3 pp.)

Report to Rep. Jack Brooks, Chairman, House Committee on Govemment Operations; by Elmer B. Statts, Comptroller General.

Organization Concerned: Federal Power Commission; Federal Energy Administration.

Congressional Relayance: House Committee on Government Operations.

Authority: F.P.C. Order 467-A. F.P.C. Order 467-B. F.P.C. Order 533.

Because of shortages of natural gas, the Federal Power Commission is projecting major cuttailments by interstate pipeline companies during the 1975-76 winter season. The total amount to be curtailed for the period April 1975 through March 1976 is expected to be about 45% more than the amount curtailed during the same months in 1974-1975. The States expected to be the most sevenely affected by this winter's gas shortages are Ohio. Pennsylvania, New York, New Jersey, Maryland, Virginio, North Caroline, and South Carolina. Findings/Conclusions: These eight States receive about 68% of their total interstate supely from four interstate pipelines that were projecting major curtailment increases in 1975-1976 over amounts curtuiled in previous years. These States have many industrialized areas which consume large amounts of gas and which employ a large nercentage of the States' antal labor force. Localized areas are expected to be severely impacted economically by the projected curtailments, particularly in those areas with industries that are dependent on assecus fuels for processing or as feedstock. Alternative fuels can cost three to four times more than natural and Although GAO did not identify any broad areas of projected unemployement or widespread shutdowns of industrial operations due to the curtaiments, unseasonably cold weather early in the winter and-/or a shortage of alternative fuels could result in these conditions. (Author/SC)

083

The Economic and Environmental Impact of Natural Gar Curtailments Ouring the Winter of 1975-76. PSAD-76-51; B-178205. November 11, 1975. 9 pp

Tealway before the House Committee on Intensiste and Foreign Commerce: Energy and Power Subcommittee, by Heary Eschwege, Director, Resources and Economic Development Div.

Organization Concerned: Federal Energy Administration; Federal Power Commission.

Congrassionel Relavonca: House Committee on Interstate and Foreign Commerce: Energy and Power Subcommittee

The Pederel Power Community (PPC) projected a total natural gas cutatinates of 3.1 ctillion cubic fore far the pencide April 1975 through March 1975, representing, for the vitetr basing sensor, a 0.1 ctillion cubic for increase in curvalingena over the 197-75 senconditions and the availability of interative subs, white with the impact would be more server, the matt impertant support of the gas curvalingen will be in terms of higher industry operating custs example by secretated final costs, The industries plus to paure as the interastic to the costs result is whence it possible. Now Weinzy, whence Nearh Coefficients are Risters that will be anticularly ulficient by controltion of the secretary of the secretary secretary and the result of the secretary of the secretary secretary secretary in the secretary devices the secretary is tracking when other the name again and excitivity, projects associations implies of the 100 gain spectra do not show the costs and the secretary secretary the event interact and and and the secretary secretary secretary that the the areas intervers. In a paper that IPC excitations that are put or emitted on the two the costs in largest of the correlement of an approxement of the secretary secretary secretary and the secretary se

084

Trans-Alaska Oil Pipeline-Progress of Construction through November 1973, RED-76-69; B-180224. February 17, 1976. 45 pp. + appandices (7 pp.).

Report to the Congress; by Elmer B. Stants, Comptroller General.

Organization Concurred: Department of the Interior, Alyeska Pipe Ene Service Co.

Congressional Relevante: Congress.

Authority: Trans-Alaska Pipeline Authorization Act of 1973 (P.L. 93-153), Defense Production Act.

The Alyesks Pipeline Co. completed construction of the maska oil pipeline in the fall of 1976, but the oil is not planned to be transported until July 1, 1977, because pump stations and the terminal are not extected to be completed before that date. Findings/-Conclusions: The planned papeline system is to have a capability to transport 600,000 barrels of oil a day by July 1, 1977, and 1.2 million barrels a day by November 1977. A decision had not been made by Nevember 1975 with regard to increasing the capacity in excess of 1.2 million barrels a day. The quality assurance program for pipeline construction did not function properly during the early part of the 1975 construction season because Alyesks had not given its quality control organization authority to halt construction which did not conform to environmental or technical regulations. Federal and State monitors had to carry out the quality control functions by requiring correction of some work. Construction of the pipeline will affect the Alaskan landscape permanently. It will cross 801 miles of previously undeveloped land. The effectiveness of the technical requirements of the pipeline system will not be known until the system becomes operational Some environmental damage has already resulted from the jack of erosion control, construction related oilspills, and failure to meet sewage treatment standards at construction camps. (Authar/QM)

085

Status and Obstacles to Commercialization of Coal Liquefaction and Gampication. RED-76-81; B-151071. May 5, 1976. 38 pp. + appencices (26 pp.).

Report to Sen. Jennings Randolph, Chairman, Senate Committee on Public Works; by Elmer B. Staats, Comptroller General.

Organization Conternad: Energy Research and Development Administration,

Congressional Relevance: Senare Committee on Public Works. Authority: Natural Gas Act of 1938 (15 U.S.C. 717). Synthetic Liquid Facis Act of 1944 (30 U.S.C. 321).

Energy Digest SEPTEMBER 1977

mercial size it appears highly unlikely, though, that any commercialsuce cost logefaction plant will be operating in the United States by 1985. A principal obstacle has been the availability of less expensive satural oil and gas. In the gasification area, at least 16 projects have been announced, but only three have progressed to the point of applying for the required Federal Power Commission approval Boonomic constraints to building such commercial plants include: large capital requirements, the ability to obtain private sector financing; ecst escelation; and competition from other fuel sources. Even the ERDA revised gasification estimate of 250,000 to 500,000 barrels of oil a day by 1985 could be difficult to achieve. Recommendations: Regulatory changes or Federal subsidies might be needed in addition to loan gearantees for initial high British thermal unit coal assification projects. Environmental uncertainties and the necessity for large amounts of water to process the coal need to receive further study. (Author/OM)

056

Plans for Construction of a Magnetohydrodynamics Test Facility in Mestone. EMD-76-8; B-178205. September 1, 1976. 1 pp. + appendices (11 pp.).

Report to Rep. Marilyn Lloyd; by Robert F. Keller, Acting Comptroller General.

Organization Concerned: Energy Research and Development Administration.

Congressional Relevance: Rep Marilyn Lloyd

Authority: Department of the Interior and Related Agencies Appropriation Act of 1975 (FL, 93-604, 83 Stat 203), Special Energy Recearch and Development Appropriation Act of 1975 (FL, 93-322; 88 Stat. 276), S. Rept. 93-1069, S. Rept. 93-903, H. Rept. 93-1123. H. Rept. 94-696.

For a number of years the Federal Government, anticipating an increased use of coal, has been funding programs to make coal a eleaner source of energy. It has expanded its efforts to include technologies designed to convert coal energy to electricity more efficiently than conventional powerplants do. In this way, the same amount of electricity could be senerated using less of the colluting fuel. An electrical generator operating on the principle of magnetchydrodynamics (MHD) is one such technology The goal of the Energy Research and Development Administration's (ERDA) MHD program is to design, construct, and operate a combined MHD and steam commercial demonstration plant by 1989. Findlags/Conclasiour. Analyzis of matters concerning the construction and operation of the MHD test facility in Montana discloses that the Congress did intend for BRDA to build two such facilities there, the component development and integration facility and later the engineering test facility. Because of this congressional mandate, no analysis was made to determine whether it would be more advantageous to build either of these facilities in another State. (Author/OM)

087

The Legality of the Reported Use by the Energy Research and Development Administration of Certain Possil Energy Funds], B-178205.00. September 7, 1976. 9 pp.

Letter to Rep. Ken Hechler, Chairman, House Committee on Science and Technology: Energy Research, Development and Demonstration (Possil Pacis) Subcommittee; by Robert F. Keller, Acting Comstroller General.

Organization Concerned: Energy Research and Development Administration.

Congressional Relevance: House Committee on Science and Technology: Energy Research, Development and Demonstration (Possil Pack) Subcommittee.

Authority: (P.L. 94-137, 89 Stat. 1063). Exergy Recorganization Act of 1974 (P.L. 94-453, 88 Stat. 1233; 42 U.S.C. 580) (et seq.), Federal Nonmolesis Energy Research and Development Act of 1974 (P.L. 93:577; 88 Stat. 1873; 42 U.S.C. 590) et seq.). 89 Stat. 1073. H.R. 1213 (94th Cog.). H. Reyt. 94-294.

088

(Contracting Out Besic Planning and Monogeneral Program Functions), EMD-76-11; B-186105. Separather 21, 1976. 2 pp. + enclosures (13 pp.).

Report to Rep. Kan Hechler, Chairman, House Committee on Solence and Technology: Borrgy Rescarch, Development and Demonstration (Fauli Post) Solenominite, Rep. William S. Mooshead, Chairman, House Committee on Government Operations: Construiton, Energy and Nataral Resources Subcommittor; by Bimer B Sanas, Comprictler Operand.

Organization Concerned Entryy Research and Development Administration, TRW, Inc.

Coognitional Bolyvester, Heur Committee on Science and Technology, Europy Research, Development and Demonstration (Possil Fuels) Subcommittee, Heur Committee on Government Operations: Conservation, Energy and Natural Resources Subcommittee, Authority: Energy Researchings Act of 1974 (PL, 93-435).

The Energy Research and Development Administration's (ERDA's) Fossil Energy Organization awarded a contract for various energy-related planning and analysis services to TRW, Inc. Findings/Conclusions: The effect of an agency contracting out basic functions for planning and management of its programs is to dilute the agency's ability to retain essential control over the conduct of its programs and to assure the Congress that its programs are being carried out in an efficient and economical manner. The heavy workload and the time pressures involved in putting together a national energy research and development plan may have justified the need for the services TRW, Inc., provided, Nevertheless, ERDA needs to reduce its dependence on management and technical support contracts. Fossil Energy Organization officials are reducing dependence by increasing their staffing. Recommendations: The Administrator of ERDA should: establish within the Possil Energy Organization a system for screening information sent to support service contractors to prevent possible conflicts of interest; show as a line item in Possil Renzy's hudget to the Congress the funds needed for support service. costraots to keep the Congress better informed; and require that all future service contracts contain a provision requiring the inclusion of a conflict-of-interest clause in all subcontracts and provisions restricting contractors' supplying consulting services on other contractors' competitive and noncompetitive proposals for rendering services in various areas where a conflict could arise. (Author/OM)

089

Review of FPC and FEA Actions in Assessing the Impact of Natural Gas Custalianests during the Winter of 1976-77. BMD-77-12; B-180228. January 13, 1977. Released April 15, 1977. 12 pp.

Letter to Rep. John D. Dingell, Chairman, House Committee on Interstate and Foreign Commerce: Energy and Power Subcommittory by Elmor B. Staats, Comptroller General.

Organization Concerned: Pederal Power Commission; Federal Energy Administration.

Coogressional Ralavonca: House Committee on Interstate and Foreign Commerce: Energy and Power Subcommittee.

GAO was asked to examine whether there would be shortages of natural gas in the winter of 1976-77 and the need for gas contraliments, their effects, and what could be done to reduce their impact.

Radings/Conclusions: As the Federal Power Commission (PPC) and the Federal Fedgy Administration (ERA) were working on this question, AGA did not think is independent susmammer uses necesring federal methods and the state of the state of the state of the indigs could be unified if the two against working once itselfs indigs acrossing federal methods and the state of the state indigs could be unified if the two against working once itselfs planning world assets that the needed data words its working the state includic deviationstates growing the other state of the state of the state planning world assets that the needed data words its working the state of the state state of the state o with gas populine comparison on gas curtainment issues would be cabaneed IF FEA and percoard would garricistus. Economode *intern* The charmens of the two agencies should issue a joint memothat disfustes the dire repetivity taxis, particularly is foreinstatus to constraints. There percoard have a subtions and dissemination. There percoard haved have uncentrated access to this data. FEA should participate in FPC bearings on gas curtaintons. (DM)

090

Issuer Needing Attention in Developing the Strategic Petroleum Reserve. EMD-77-20; B-178205. February 16, 1977–19 pp. + 2 appendices (3 pp.).

Report to the Congress; by Elmer B Stasts, Comptroller General.

Orgonization Concarnad: Federal Energy Administration, Department of the Interior, Department of State; Department of Defense, Department of the Navy.

Congrassional Relavances: House Committee on Interstate and Fo reign Commerce; Senate Committee on Interior and Insular Affairs Congress.

Authority: Energy Policy and Conservation Act (P.L. 94-)63)

The concept of the Strategic Petroleum Reserve is to provide protection against future oil embertons by creation of a research could to approximately \$00 barrels of crude oil. As part of the reserve, an Early Storage Reserve is to be established to contain at least 150 million barrels by December 1978. The proposed reserve will contain only crude oil which will be stored underground in salt dome caverns or as animes, primerily slong the Gulf Coast, issues which require further analysis by Congress relate to three questions (1) Is there a need for the type of Strategic Petroleum Reserve? (7) How should the strategic Petroleum Reserve he filled? and (3) How should the Strategic Petroleum Brserve he Engneed? Fundamy/Conclusion GAO continues to support the concept of a system of national emerseven every reserves. It believes, however, that the use of industry crude oil and product stocks may be an alternative to the creation of a Strategic Petroleum Reserve. The Federal Energy Administration plans to purchase oil for the reserve at near the netional average composite price. As long as proce controls remain on domestic oil royalty oil could be acquired to fill the reserve, resulting in significant dollar savings with little or no adverse financial impact on small refiners. (RRS)

091

[Procurement of Foreign and Domenia: Petrolium by Department of Defense]. PSAD-76-51; B-178205. Docember 29, 1977 18 pp + enclosure (2 pp.).

Report to Sen. Williem Proximite, Chairman, Joint Economic Committee: Priorities and Economy in Government Subcommittee, by Elmer B Stats, Comproller General.

Organization Concerned: Department of Defense

Congressional Relevance: Jaw Economic Committee: Priorities and Economy in Government Subcommittee.

Authority: Truth-in-Negotiations Act of 1962 (P.L 87-653). Defense Production Act of 1950 Emergency Petroleum Allocation Act. B-168450 (1974).

Although the Deforme Peel Supply Cherr: has route a ganzies with the previous periods in the Deformation Peel Deform (2016) where an approximation of the Deformation Peel Deform (2016) have an approximation of periods and the previous weather the period of the previous periods and the previous section of the period of the period of the previous section of the of "unions that as a uncertainflags happen previous section periods and the period of the periods of the previous section of the other section of the period of the previous section of the periods of the period of the periods of the periods of the period of tuios à lecifiq. Accommandatione Where companies are example from formaling cost dans on the basis of the instantial aisales to de public, the Secretary of Defense heuld detain encopie, data to estihi dan prioris se basis or porce pair de la companya de la stato estbalcat de estamand before convintig exertares nagatitations. Do balcat also estatos de faire de gamane environne in protoemen chargas la minie index designed a gamane movement in protoemen chargas la minie index designed a gamane movement in protoement contras princip exercisions. DOM

HOW DO FINANCIAL INCENTIVES, TAX POLICIES, AND REGULATORY POLICIES AFFECT ENERGY SUPPLY ACTIONS?

092

Opportunities for Improvements in Reclaiming Strip-Mined Lands under Coal Purchase Contracts: B-114350. August 9, 1972 33 pp. + 4Dpenduces (20 pp.)

Report to Rep. Ken Hechler; by Elmer B Stasts, Comptroller General.

Organization Concurred: Tennessee Valley Authority. Congressional Relayance: Rep Ken Hechler

About 1960 the Tenesses Valley Authority (TVA) begins to encourage adoption of strep-mang legislation in the States from which it haves coel. Because not ill of these had adopted errip-sensing concentration of the strep and the state of the strep and the strep and the state of the strep and the strep and the strep and the state of the strep and the strep and the strep and the state of the strep and the strep and the constraints, less the darange for a receptation, receptate and the strep and the state of the strep and the constraints.

Thanking Charachanove: TWA is lass requirements are more specified in any ord to carrier treatments and any shallow supervised to TWA approach to the reglements of subjective states and the treatment of the states are and the states of the states of the states of the states are and the states of the states of the states of the states are stated and the states of the states are stated as the states of the states of the states of the states are stated as the states of the states delayers in a large states of the states of the states of the states of the delayers in a large state of the states of th

intermediations of the probability of improvement of version and the problem of excess soil acadity before including an arcs in an approved mining plan; stabish guidelines on enforcement actions for improper reclamations, and stabilish procedures for use in performing and reporting on imprecisions (QM)

093

Administration of Regulations for Surface Exploration, Mining, and Reclampian of Public and Indian Coel Lands. B-148623 August 10, 1972. 31 pp. + sepandix (5 pp.).

Report to Rep. Henry S. Rests, Chairman, House Committee on Government Operations: Conservation, Energy and Natural Resources Subcommittee; Rep. Guy Vander Jagt, Ranking Minority Member; by Elmer B. Stassis, Comptroller General.

Organization Concerned: Bureau of Indian Affairs; Bureau of Land Management; Department of the Interior; Geological Survey.

Congressional Relavance: House Committee on Government Operations: Construction, Energy and Natural Resources Subcommittee, Res Guy Vander Jagt.

Authentify: Minireal Lands Act of 1920, as amended (P.L. 86-705; 30 U.S. C. (8). Mineral Lensing Act for Acquired Lands (P.J. 80-382; 30 U.S.C. 35). National Environmental Policy Act of 1059 (P.L. 91-199, 83 Stat. 852). 52 Stat. 347. 35 Stat. 781, 43 C.F.R. 23. 25 C.F.R. 177.

The Department of the Interior's regulations concerning surface exploration, mining, and reclamation of public lands and Indian lands do not provide specific technical requirements for such activities. Such requirements are based on examinations of the effects that the proposed mining operations will have upon the environment and are included as spross stipulations in permits or leases granted by the Department to the mining operators During the period January 18, 1969 to November 1, 1971, the Department issued 258 permits and 38 Jesses for coal exploration and mining on public and Indian lands. The Bureau of Land Management (BLM) had 529 normit and 115 lease applications pending at November 1, 1971, the Bureau of Indian Affairs (BIA) had none Findings/Conclusions: For the 65 permits and lesses reviewed (53 for BLM and 12 for BIA), it was found that: the required technical examinations had not been conducted for 35 of the permits and lesses; some permittees were operating without approved exploration plans and some plans had been approved without technical examinations, some compliance and performance bonds covering the requirements, including reclamation, of leases or permits had not been obtained from the operators; and some of the reports required to be submitted by the operators to the Department at various stages of the operations on such matters as grading and backfilling, planting, and abandoning operations had not been submitted. Documentation of the results of technical examinations, onsite visits, and other activities required by the regulations was not always prepared BLM's procedures for the preparation of environmental impact statements do not outline the criteria to determine when and under what circumstances statements should be prenared. BIA has not developed any procedures for the presention of such statements. Recommendations: The Secretary of the Interior should clarify the requirements of the Department's regulations by providing guidance as to: the timing and scope of technical examinations and the submission and approval of exploration and mining plans; the required amount of performance bonds, the need for adequate documentation of the results of the activities conducted under the regulations; and the need for documented periodic reviews of the administration of the regulations. The Scoretary should appraise the adequacy of the fee associated with processing an application for a coal permit or lease; require BLM to revise its procedures for the preparation of environmental impact statements to comply with the guidelines of the Council on Environmental Quality, and require BIA to adopt such procedures. (Author/QM)

094

Procedures for Evaluating Renomblenews of Petroleum Pupeline Rates Need Improving, B-153389. September 20, 1972. 16 pp. + appendices (4 pp.)

Report to the Congress; by Robert F. Keller, Acting Comptroller General.

Organization Concernad: Department of Defense; Department of the Air Force; Interstate Commerce Commission.

Congressional Relevance: Congress

Authority: Truth in Negotiations Act of 1962, Interstate Commerce Act.

The Department of Defense (DOD) speeds an estimated \$17 million annually meaning partolem that by pipolene within a contained the United States: A maps portion of this case is associated to DD paid accession is not to canage the DD paid is a software to DD paid accession is not to canage the dD payments to three AF Force share when accounted for \$3.3\$ of the \$17\$ million. In determining the resonances of speeling polymers is three with a strange the dD paid is associated for \$3.3\$ of the \$17\$ million. In determining the term of the dD paid is a strange that the dD paid is a commental pipeline to interact of the dD paid is the dD paid is applicable to the dD paid is a strange that the dD paid is a strange dD paid to the dD paid is a strange that the dD paid is a strange dD paid to the dD paid is a strange that the dD paid is a strange dD paid to the dD paid to the dD paid to the dD part dD paid dD paid to the dD paid to the dD paid to the dD part dD paid dD paid to the dD paid to the dD paid to the dD part dD paid dD paid to the dD paid to the dD paid to the dD part dD paid dD paid to the dD paid to the dD paid to the dD part dD paid dD paid to the dD paid to the dD paid to the dD part dD paid to the dD part dD paid dD paid to the dD paid to the dD paid to the dD part dD paid to the dD part dD paid dD paid to the dD paid to the dD paid to the dD part dD paid to the dD part dD paid to the dD part dD paid dD paid to the dD paid to the dD paid to the dD part dD paid to the dD part dD paid dD paid to the dD paid to the dD paid to the dD part dD paid to the dD paid to the dD part dD paid to the dD part dD paid to the dD paid to the dD paid to the

The account of the second seco

refuse to negotistic separate contracts, solicit the assistance of the Interstate Commerce Commission in establishing reasonable rotes. (OM)

095

[Department of the Interior's Views of Communits on Administration of Regulations for Surface Exploration, Mining, and Redomation of Public and Indian Coal Landa], B-142623 January 31, 1973. 7 pp.

Report to Rep Henry S. Reuss, Charmon, House Committee on Government Operations: Conservation, Energy and Natural Resources Subcommutee; by Elmer B. Stasts, Comptroller General.

Organization Constrant Department of the Interior; Bureau of Land Management, Council on Environmental Quality; Bureau of Indian Affains; Geological Survey.

Bonary Human, Octobergior Information Committee on Government Dependence Congenetioned Relavance House Committee on Government Dependence Subcommittee, Authority: Mineral Lazaing Act (10 U.S.C. 181). National Environmental Policy Act 25 C.F.R. 177. 43 C.F.R. 23.5(a). 43 C.F.R. 23.7, 13.8. Bureau of Land Management Minawa (3 509)

The Department of the Interior believes that: (i) the Bureau of Land Management's (BLM's) procedures for preparing environmental impact statements were developed through formal and informal consultation with the Council on Environmental Quality (CEO) and fully comply with CEO guidelines; (2) GAO's report on the administration of regulations for surface exploration, mining, and reclamstion of public and Indian coal lands by the Department was not in all cases factors) and accurate: and (3) reclamation regulations were fully implemented, and further elerification of BLM's regulations or the manual instructions and other implementing guidelines of the Geological Survey is unnecessary. Paulises/Conductors: BLM's procedures do not provide adequate criteria to determine when and under what elecuristences BLM should prepare individual environmental impact statements. After BLM has issued a statement on its cool-leasing program, criteria will be necessary to identify those netions which qualify as exceptions to the program and which justify individual statements. Department officials do not have the evidence to back up their clasm that 10 leases and permits, rather than the 23 cited by GAO, did not have technical examinations before issuance, extension, or adjustment. Recommendationer Further chrification and guidance regarding the Department of the Interior's reelsmotion regulations is needed, particularly concerning circumstances in which site examinations are not required, (OM)

076

Revenues and Castr Allocated to Power Operations at Malighe-Purpose Project in the Southwestern Pederal Power Systems B-125031, Postuney 20, 1973, 36 zp. + spontitions (12 pp.).

Report to Rep. Carl Albert, House of Representatives: Speaker of the House; by Elmer B. Staats, Comptroller General.

Organization Concernad: Department of the Army, Department of the Interior; Southwestern Power Administration; Department of the Army: Corps of Ergineen; Federal Power Commission.

Congressional Relayance: House of Representatives: Speaker of the House Rep Carl Albert.

Authenity: Flood Control Act of 1944 (16 U.S.C. 825s). S. Rept. 1764 (84th Cong.). S. 3338 (84th Cong.). H.R. 2788 (84th Cong.) B-163798 (1970).

The Sprate of the Horse was concerned over trees the bitransfer of lexificity provides the Southtension for detail provides the Southpareter operation of these projects. *Healing/Combinities Horse* prover operations of these projects. *Healing/Combinities Horse* and the Ala South-Prover System (FS) these these southsenses of the South-Proven Provides (FS) the Southsenses of the South-Provides and Southfact (Handhord, South-Provides and South-Barry 1997). South-Provides and South-Provides and Southfact (Handhord, South-Provides and South-Barry 1997). South-Provides and Southsouth-Provides an

Proposed Resultons to the Cristens and Contracts for Uranium Enrichment Services. B-159687. Match 15, 1973. 30 pp. + 3 appandices (13 pp.).

Report to Rep. Melvin Price, Chalrman, Joint Committee on Atomic Energy; by Elmer B. Staats, Comptreller General.

Organization Concerned: Atomic Energy Commission.

Congressional Ralavanca: Joint Committee on Atomic Energy Authority: Atomic Energy Act of 1954, as amonded (42 U.S.C. 2011). Private Ownership of Special Nuclear Maternis Act (P L 85-489).

The Atomic Energy Commission (AEC) has prepried revisions to the Uranium Enrichment Services Criteria. These revisions would change the terms and conditions under which AEC parrently offers to provide enrichment services by requiring its customers to assume a greater share of the financial risks in supplying such services. The proposed changes would provide AEC with the flexibility to initiate operating practices which should be helpful in accomplishing ARC's objectives. Findings/Conclusions: There are no legal objections to the proposed criteria changes and the corresponding changes AEC is contemplating in its contractual relationship with its customers AEC's objectives in changing the criteria seem reasonable because of the uncertainties as to the level of fisture customer demand for enrichment services and the substantial communents necessary to provide additional enrichment capability. Because of the possibility that AEC may reach us enrichment capability limit by the end of estendar year 1974, the Joint Committee on Atomic Energy may wish to consider requiring that AEC report on its total outstanding commitments, estimated additional commitments, and maximum enrichmost capability more frequently than the pretroit annual report period. The Committee may also wish to require AEC to include information on industry's advancement toward assuming responsibility for providing any additional enrichment capability needed bryond AEC's capability in its report. The Committee may wish to discuss with AEC its contingency plans as to what it would do if industry can not assume responsibility for new enrichment capability by the end of 1974 (SC)

095

How the Federal Government Participates in Activities Affecting the Energy Resources of the United States. B-178205. April 6, 1973–34 pp. + 4 appendices (8 pp.).

Report to the Congress; by Elmer B. Stasts, Comptroller General

Opportavities Constrainté Atomic Energy Commission; National Soince Forndheiling Bareau et Munic Department et des Instricts, Otological Survey; Bureau et Reclamation; Ranal Electrification Admitidustical; Pederal Power Commission; Tennessee Valley Authority; Eavisonnental Prosperition Agency: Department of the Army Corps of Engineers; Departments of Commerce; Coast Guard, Compensation Educoment: Organism.

Authority: Geothermal Steam Act of 1970 (P.L. 91-581). Federal Coll Mine Health and Safety Act of 1969 (30 U.S.C. 801). Water Quility Improvement Act of 1970 (P.L. 91-224).

Writably all energy demands in the United Shines are presently added by the property energy accuracy, all stands aga, call, water, and aga, and an another and a stand aga, and a primery source. A devessed energy concerne-posternal, all shake, added, hierarchietter free age in and others are indeed to with keyful added, hierarchietter free age in and others are indeed and a stand and an another and a stand aga, and a standard and a standard added, hierarchietter free age in and others are indeed on the standard that leaded in a standard and aga and a standard and a standard that leaded in a standard and aga and a standard and a standard that leaded in a standard and a standard and a standard and a standard aga and a standard and a standard and a standard and and a standard and and a standard and a plies results the development of particularly new energy sources determinities of two values ways to possize a plan different on order that the strength of the strength of the strength of energy, possibilities and a star of advertising, and regarding to experimentia, planking in the strength of the s

099

[Reported Requirements of the Federal Investment in the Tennessee Valley Authority's Electric Power System]. B-114850. April 27, 1973. 6 pp.

Report to Rep. Joe L. Evins, Chairman, House Committee on Approprintions: Public Works Subcommittee; by Elmer B. Staats, Comptroller General.

Organization Concerned: Tennessce Valley Authority,

Congressional Relevance: Houre Committee on Appropriations: Public Works Subcommittee.

Authority: Tennessee Valley Authority Act, § 15d (P.L. 86-137; 16 U.S.C. 12A). S. Rept. 86-470

The logal industrements for renewment of the Federal appropriation investment in the Tennessee Valley Authority (TVA) and the return on that investment treat a large part of the investment as if it were equity capital. Although TVA is required to repay \$1 billion of the appropriation investment, it is not required to repay about \$201 million of the investment which was outstanding at June 30, 1960. or any of the appropriation investment made after that date. Findiner/Conclusion: If the appropriation investment cutstanding at June 30, 1973, were considered as equity capital, the \$20 million annual renavment of the appropriation investment presently required would be available instead to reduce the amount of bonds TVA would otherwise issue to finance its nower program. This procedure would result in net savings in interest costs because funds which TVA would use to receiv the amenopriation investment with an estimated interest rate of 5.75% would be used, instead, to reduce the amount of bonds which TVA would otherwise issue at an estimated interest rate of 7.5% The resulting savings in interest costs would be available to reduce or postpone power rate increases From fiscal year 1974 through fiscal year 2014, the use of the alternative renavment method could result in TVA power customers realizing savings totaling about \$287 million (Author/OM)

100

Improved Impection and Regulation Could Reduce the Passibility of Olipills on the Owter Continental Shelf. B-146333. June 29, 1973. 36 pp. + appendices (8 pp.).

Report to Rep. Henry S. Reuss, Chairman, House Committee on Government Operations. Conservation, Energy and Natural Resources Subcommittee; by Elmer B. Statts, Comptroller General.

Organization Concerned: Department of the Interior; Geological Survey; Coast Guard; Environmental Protection Agency.

Congristionel Relevance: House Committee on Government Operstions Conservation, Benzy and Natural Resources Subcommittee, Authority: Federal Water Pollution Control Act (33 U.S.C. 1161), Outer Continents Sholl Lands Act (43 U.S.C. 1333), DO C, F.R. 250.

The Department of the Interfort is antiported to lease lange and to regulate oil and gas operations on the Outer Confidencial Shuff (OCS) to conserve narraw lessources. The Grotopical Survey is responsible for inspecing and regulating oil and gas operations on OCS. *Besidinger Conclusions:* From March 1971 through Pietrumy 1972, splits totaling about \$600 barrels were reported by offshore ell operation in the Out off which were more than 600 natural oil soops in the Pacific area. Geological Survey inspectors in the Gulf Coast major did not always follow prescribed regional enforcement actions and written warmings in the Pacific rences were sometimes ineffective in obtaining promet corrective of deficient equipment. Except for producing wells, the Survey had not issued written policies on the frequency of inspections, especially for drilling of new wells, remedial work on producing wells, and abandoninent of nontroductive wells. The Survey did not inspect structures in the Gulf Coast area as frequently at required by standards car but the region or by official Survey policy. The Survey had no formal inspector training program Recommendations The Societies of the Interior should require the Geological Survey to emphasize the need for instruction personnel in the Gulf Cosst region to apply presented enforcement actions for violations of OCS orders, recuamone the Pacific region's policy of not halting operations for violations of OCS orders; and establish a realistic policy on how frequently each type of OCS operation must be inspected.

Propagal Power Rate Increase of the Rureau of Reclamation's Control Vallet Propert January 72, 1974, 8 no. 4 attachments (5 no.) Textmany before the House Committee on Government Operations: Conservation, Energy and Natural Resources Subcommittee, by Baltas F. Rickle, Denuty Director, Resources and Feonomy Devolopment Day

Organization Concerned: Burgau of Replamation: Pacific Ges and Electric Co.: Federal Power Commission,

Congrassional Ralayance: House Committee on Government Openations, Conservation, Energy and Natural Resources Subcommittee Authority: H. Rent. 89-1409

Preparing rate and repayment studies for the Central Valley Project based on predicting changes in the operating methods that are subject to the outcome of future agreements between the Burcan of Reclamation and Pacific Gas and Electric is a questionable method. The no-deficit-year concept used in the rate and renewment study is not consistent with the criterion used by other Federal mover manketing agencies or with congressional statements as to the concents which would be used in preparing a rate and renewment study. On the basis of the Bureau of Reclamation's study using updated hydrology data, the effective rate for both capacity and energy would be about 5.97 mills per kilowatt-hour instead of the proposed 6.15 mills per kilowatt-hour, an overall rate increase of about 46% compared with the proposed increase of 51.6%. Except for providing \$78.4 million for those storns referred to as deferred costs, nower rates should not be increased to provide a surplus. Replacement costs should be espitalized rather than expensed in the year in which they occur. (Author/OM)

102

Renew of Complaints Concerning the Mondatory Petroleum Allocation Program and the Regulation of Petroleum Pricing, B-178205, May 3. 1974. 6 pp. + 6 appendices (13 pp.).

Report to Sen. Robert Dole; by Elmer B Staats, Comptroller General

Oroonization Concerned: Federal Energy Office Congressional Relovance: Sty. Robert Dole

Authority: Economic Stabilization Act of 1970 (P.L. 91-379: 84 Stat. 759). Emergency Petroleum Allocation Act of 1973 (P.L. 93-159; 87 Stat. 627). Defense Production Act of 1950 (50 U.S.C. Ann. 2061), S. 3151 (93rd Cong.)

Several persons complained to Senator Dole regarding the petroleum allocation ecogram. Findings/Conclusions Most of the complaints investigated were written within a month of the beginning of the Federal petroleum allocation program in October 1973. Most of the petroleum allocation regulations in force at the time of the complaints have been revised and many changes have occurred in the program's organization, staffing, policies, and procedures, Data systems designed to provide the Federal Energy Office (FEO) with data on where and when different retroleum werducts are needed are now operating or are expected to be operating in the near future. Under the present program, available sumligs are affocated in accordance with practices established by FEO. The lack of authority to refuire of comparisity to statend to allocated densitians within a stotilied time caused some problems for the Kansas City FEO Retional Office in carrying out its responsibilities. The complainants interviewed could not needed documentation to substantiate charges that the mandatory propage allocation program was being blatantly abured or interrard (SC).

102

Leonhte of Printing Gaussine Rationing Cospons by Federal Energy febuiarstration |, B-178205(2), June 13, 1974, 3 pt. Letter to Rep. Harold V. Freehlich: by Robert F. Keller, Dennity Comptroller General

Congressional Relevance: Rep. Harold V. Prochlich

Authority: Defense Production Act of 1950, as amended (50 U.S.C. App 2071(b)), Supplemental Appropriations Act (a) 1974 (P.L. 93-245). Emergency Energy Act; S. 2589 (93rd Corg.).

[Legality of Administration Actions in Printing and Storing Gar Company), B-178205(1) June 13, 1974, 3 nn Letter to Rep. Paul Pindley, by Robert F. Keller, Deputy Compttoller General

Congressional Relevance: Rep Paul Findley.

Authority: Supplemental Appropriations Act fail 1974 (P.L. 93-245)

105

Information on Certain Oil and Gas Industry Oversight Responsibilities. B-146333 June 17, 1974. 10 pp. + appendices (2 pp.). Report to Rep. John E. Moss; by Elmor B. Staats, Comptroller General

Organization Concerned: Department of the Interior: Bureau of Mines: Bureau of Land Management; Geological Survey, Congressional Relavance: Res. John E. Mass.

Authority: Outer Continental Shelf Lands Act (P.L. 83,212- 43 U.S.C. 1332). Administrative Properture Act (S U.S.C. 552), 30 C.F.R 250.97

The Depertment of the Interior has data oversight responsibilities regarding the oil and gas industries involved in affahore drilling activities, release of offshore geologic and seismie data to the public, canned wells on Federal lands, and prior employment by the oil industry of certain Federal officials. Fludings/Covelasions: The Geological Survey (Survey) generally obtains its oil and gas reserve statistics from the Bureau of Mines (BOM) which obtains its information from the Amorican Petroleum Institute and the Amorican Gas Association. These organizations' statistics are used because they are prepared on a basis consistent with price years and it would be a duplication of the industries' effort for the Department to also prepare statistics. BOM door not verify the organizations' atstistics bossuse their policies prohibit verification. Written agreements between Survey and Bureau of Land Manasement (BLM) provide for exchange of the data needed by both agencies and the propertures to be followed in tract selection, presale evaluation of the tracts, and postsale evaluation of the bids received on the tracts. According to Survey, official public disclosure of offshore goological and geophysical data is prohibited by law and by the terms of the contract for purchasing the data. Shut-in wells on Federal and Indian lands could supply about 12,000 berrels of oil and 185,000,000 cubic feet of gas a day. Of 36 top-level Department employees reviewed, 15 had recorded previous oil and gas industry employment. (Author/QM)

The Cost of Living Councel's Actions to Assure That Cost Increases for Petroleum Products Were Made in Accordance with Petroleum Pricing Regulations]. B-178205. June 24, 1974. 2 pp.

Report to Rep. William J. Randall, Chairman, House Committee on Government Operations: Commerce, Consumer and Monetary Affairs Subcommittee; by Phillip S. Hughes, Assistant Comptreller General.

Organization Concerned: Cost of Living Council; Federal Energy Office.

Congrassional Relavance: House Committee on Government Operations: Commerce, Consumer and Monetary Affairs Subcommittee.

Prior to December 26, 1973, the Cost of Living Council (COLC) was responsible for administration of petroleum pricing regulations.

Therdingret/Constrainers COLC: regulations did nos require framesting provide out information justifying article interastics in servers, from the provide out information. A mathematic frame provide the propulsion of the provide the provide the provide the prodef and devices an addit program for detailed verification of data and the provide the provided the provided the prodef and devices and additional collision of data and other solvements with the provided the prodef and devices of the protocol of the provided the prodef and devices of the protocol of the protocol

107

[Recovery of Expenses from Cleanup and Investigation of Oll Spills]-B-146333, June 28, 1974, 12 pp.

Letter to Rep. Henry S. Reuss, Chairman, House Committee on Government Operations. Conservation, Energy and Natural Resources Subcommittee; by Robert F. Keller, Deputy Comptroller General.

Congressional Relevances: House Committee on Government Operations: Conservation, Beergy and Natural Resources Subcommittee. Authority: Outer Costinential Sheff Lands Act (43 U.S.C. 132 et seq.), Federal Water Pollution Control Act, as amended (P.L. 52-500, 33 U.S.C. 1321 (Seep. 11); 33 U.S.C. 1161).

108

Problems in the Federal Energy Office's Implementation of Energency Periodeans Allocation Programs of Regional and State Levels. E-178205. July 23, 1974. 13 pp. + 3 appendices (1 pp.). Report to Sen. Abraham A. Robicoff, Chairman, by Phillip S. Hughes, Assistant Comptroller General.

Organization Concerned: Federal Energy Administration Congressional Relevance: Sesate Committee on Government Operations.

Authority: Emergency Petroleum Allocation Act of 1973 (87 Stat. 627). Executive Order 8748.

Problems identified in the regional offices of the Federal Energy Administration (FEA) included: failure to promptly or correctly process applications for petroleum allocations; an ineffective management information system designed to keep track of allocation cases; and a limited enforcement and compliance effect which may have been misdirected. States appeared to be using the State set-aside for hardship allocations of fuel. Findings/Conclusions: Many priority users, such as agricultural producers, were found to be requesting and receiving State set-aside fuels, even though such priority users should have been receiving 100% of their current requirements from regular supplies. Delays in processing applications at FEA regional offices were one opearent cause of priority users requesting hardship allocations. A lack of documentation concerning the factors considered in arriving at decisions on applications for allocations made it difficult to evaluate the propriety of decisions and may have contributed to inconsistent decisions at each region since no basis for developing precedents was available. A number of deviations from regulations were noted. There were inconsistences in the ensnner in which the region contered information into the nationwide computerized case tracking and reporting system, and the system was not used to density dynalicate adjustments or to provide feedback to State energy offices on the status of requests for permanent adjustments made by applicants requesting hardship relief. (SG)

109

[Suppliers' Compliance with Allocation and Price Regulations]. July 30, 1974. 3 pp. + enclasure (2 pp.).

Report to Hugh Sausay, Jr., Federal Energy Administration: Region I Office, Boston, MA; by Jaseph Eder, Regional Manager, Field Operations Div.: Regional Office (Boston)

Orgegization Concernad: Sun Oil Co.

Authority: 10 C.F.R., ch. II. Petroleum Allocation and Price Regulations, § 211 102. Petroleum Allocation and Price Regulations, § 211.-13.

As part of a review of the Federal Energy Administration's (FEA) motor gasoline allocation program, an investigation was conducted to determine whether gas deliveries and adjustments by suppliers were in accord with the established Petroleum Allocation and Price Regulations Findings/Conclusions Three of the four major suppliers reviewed were generally complying with the regulations. relating to both deliveries and adjustments Suncce, however, was delivering more assolute to stations than regulations permitted. A review of deliveries to 22 randomly scloeted stations showed that 18 had received over one-half million gallens or more than one-third more than allowed during the period January through April 1974. Sunoco's deliveries were made at 1974 projected levels and not based an historical sales. Recommendations: FEA should periodically review suppliers' delivery records to assure that regulations are being followed. Delivery records for rotall outlets which have not requested an adjustment should be periodically examined to assure that they are receiving the proper quantities of gasoline. (DJM)

110

[Alleged Waste of Money in Printing Costs on Ges Railoulug Cospons]. B-178205. August 5, 1974 3 pp.

Letter to Rep. Elizabeth Holtzman; by Robert F. Keller, Deputy Comptroller General.

Organization Concerned: Bureau of Engraving and Printing; Federal Energy Administration.

Congressional Relevance: Rep Elizabeth Holtzman.

ш

[Improving the Operations of the Federal Energy Administration Region X Office], August 15, 1974. 3 pp.

Report to Jock Robertson, Administrator, Federal Energy Administration: Region X Office, Scattle, WA; by Philip A. Bernatein, Manager, Field Operations D(v : Regional Office (Scattle).

The Federal Energy Administration (FEA) Region X Administor agreed to take certain actions to improve the operations of the FEA Region X Office. Findings/Conclusions: Most fuel suppliers had not been forwarding allocation requests to FEA within 20 calendar days after receipt as required. In response to the problem, FEA will esonitor the time it takes for the allocation requests to be forwarded to the region by the suppliers and notify noncomplying companies of the required FEA time frame. There was little documentation in some of the case files to support FRA case determunations, case documentation procedures are being developed. The region had not been using its computer system for recording and retrieving information on allocation cases. The region is now redesigning the entire case tracking and control system around the corsroter to dualization between the two systems will be eliminated and will start using the computer system to summarize data on the disposition of cases. A request return rate of 18% to the States, indicating processing problems, was actually caused by misrouting of the requests. (Author/QM)

Domestic Crude Oil Pricing Policy and Related Production. B-178205. August 19, 1974. 2 pp. + appendis (17 pp.).

Report to Rep. Donald M. Fraser; by Phillip S. Hughes, Assistant Comptroller General.

Organitation Constraint: Cost of Living Council; Federal Energy Administration.

Congressional Relavance: Rep. Danald M. Fraser.

Currently, responsibility for the administration of petroleum pricing policy rests with Federal Energy Administration. Before the creation of FEA, the Federal Energy Office was responsible for these policies, this responsibility having been transferred from the Cost of Living Council on December 26, 1973. Findings/Conclusion: New oil production costs are not separately maintained by the major oil companies to they could not supply this information. Ranid changes in petroleum pricing policies have made it difficult to single out the offects of the policits on oil production. There were no indications that oil companies were witholding production of oil. The December 1973 dollar increase in the price of old oil was not tied to increased costs of production and no detailed studies or analyses were made to justify the increase. Primary reasons for the increase were to reduce the gap between domestic and higher world oil prices and atimulate increased production through secondary and tertiary recovery methods, (Author/OM)

113

Need for Improving the Regulation of the Natural Gas Industry and Management of Internal Operations. B-180228. September 13, 1974.-63 pp. + 4 appendices (52 pp.).

Roper to Rep. John B. Moss; by Elmer B. Staats, Comptroller General.

Organization Concernad: Federal Power Commission. Congressional Relavance: Rep. John E. Mass.

Authenitys Pederal Water Power Act (16 U.S.C. 791), Public Utility Act of 1935 (16 U.S.C. 971), Natural Gas Act (15 U.S.C. 717), F.P.C. Order 402-402-A. F.P.C. Oyder 418. F.P.C. Order 431-431-A. F.P.C. Order 491. F.P.C. Opinion 699.

Extensions which the Pederal Power Commission (FPC) granted to producers making 60-day emergency gas sales were improper because they were not authorized by FPC regulations and because they were contrary to PPC's stated intention to limit producer emerrenzy sties to a single 60-day period. Findings/Canclasians: Extensions granted by FPC during the Federal court's stay of the FPC's order implementing 180-day emergency sales negated the effect of the court stay and raised serious questions as to the propriety of the FPC's actions. Persone orders implementing amergency gas sales either were not enforced or required only submission of estimates on the volume and price of natural and brought to the interstate market when the sale began, the PPC relied on incomplete and inaccurate data in its decisionmaking processes. Because the PPC failed to take final action on applications made under FPC's optional certificate procedure within 6 months, customers paid higher prices for natural gas than may be just and reasonable. Recommendations: The Chairman of the PPC should: improve monitoring of interstate gas sales by imposing reporting requirements on regulated entities, establishing an adequate data and recordkeeping system, and requiring timely and complete reporting of gas asles data; improve the processing of applications under the optional certificate procedure to insure that gas consumers are not charged rates which are higher than justified: and improve FPC's procedures to insure that upper level officials do not own financial securities which could result in a conflict of interest. (Author/SC)

112

114

[Nend for the Federal Power Convolution to Improve the Regulation of the Natural Gas Industry and Management of Its Internal Operations]. September 25, 1974. 13 pp.

Testimosy before the House Committee on Interstate and Foreign Commerce: Oversight and Investigations Subcommittee; by Victor L. Lowe, Director, General Government Div.

Organization Concerned: Federal Power Commission.

Congressional Relevence: Hear Committee on Interstate and Poreign Commerce: Oversight and Investigations Subcommittee. Awtherity: Natural One Act. F.P.C. Order 402, 402A. F.P.C. Order 413. F.P.C. Order 491, 491A.

A study of the Pederal Power Commission (FPC) showed that the Commission needs to improve both its regulation of the natural gas industry and its management of internal operations. Hadings/Conclusings: In 1970, PPC issued a number of emergency orders designed to deal with perceived any shortages. Under some of these orders, independent natural gas producers were authorized to make emergency sales to interstate pipelines for 60 days without prior FPC approval. Extensions were later aranted to predeners making emersency sales under these orders, although such extensions word not authorized by FPC regulations and ran counter to FPC's stated intertions and commitments. The question as to whether the FPC has the authority to waive these regulations imposed by the Natural Oas Act remains. There is a need for FPC to obtain more complete and accurate data on the volume and price of sas brought into the interstate market by its emergency sales programs. PPC's optional certificate procedures need to be improved to insure that are customera are charged prices that are just and reasonable. There has been wideread noncompliance by PFC officials with the agency's standards of conduct regulations resulting from a breakdown in the reporting system intended to disclose financial holdings of officials that were actual or potential conflicts of interest. (SC)

115

[Rester of the Operations Divides of the Foleral Energy Administraises]. October 24, 1974. 4 pp. + sitechments (3 pp.). Bypor to Robert Mitchell, Regional Administrator, Federal Energy Administration: Region 1 Office, Bonton, MA; by Joseph Eder, Manager, Field Operations Diris (Regional Office (Bostel).

Organization Concerned: Environmental Protection Agency. Authority: Mandatory Petroleum Allocation Regulations, § 211. 13(c).

The Operations Division of the Federal Baergy Administration (FBA) censists of the Case Resolution Branch and the Energy Assistance Center. These sections process requests for additional petroleum products. Fladings/Conclusions: There was a 65% decline in the number of petroleum product request applications processed by the Case Resolution Reasch after June 1974. Reesons olted by the Operations Division for the decline, such as the complexity of osses, are questionshie. There was also a substantial decrease in applications reviewed by the Bnergy Assistance Centor staff while the staff itself increased in average size. The man-days expended at the Center are not reported by its Woekly Regional Status Report; productivity ownnot be assessed. Even though \$5,000 in overtime was paid to the One Resolution staff in June, July, and August 1974, the case backlog increased and the weekly average cases closed did not increase. About one-third of the overtime was paid to the Chiel of the Case Resolution Branch even though his daties do not involve directly resolving cases. Also, overtime was not being approved in advance according to policy. This same Chief received a raise in pay statut to which he was not entitled and for a time worked on a detailed status with another agency that was not documented. Recommendat alons: The level of manpower required by the Case Resolution Branch should be reevaluated in view of the reduced caseload. The Weekly Regional Status Report should be modified to show the output of ' a Bnergy Assistance Center in relation to man-days expended. Also, management should be aware of the need and reason for paying overtime before the fact, and the failure to provide documentation for personnel actions indicates a need to improve FEA's administrative practices. (Author/QM)

116

[Paderal Energy Administration's Actions on Allocation and Pricing of Fuel], October 29, 1974. 2 pp. + enclosure (4 pp.)

Report to William C. Arntz, Regional Administrator, Federal Energy Administration: Region IX Office, San Francisco, CA; by A. M. Clavelli, Regional Manager, Field Operations Div.: Regional Office (San Francisco).

Organization Concornadi Consumer Oil Operations, Secramento, CA; B. S. Addison, Inc.; Fredericksen Tank Lines; Petroleum Tank Lines.

Two consequence, E. S. Addinus, inc. of Commer (61) Opentical CoOM and piece relation of the Pin Adsociation of the CoOM and piece relation of the Pin Adsociation of the CoOM and piece relation of the Pin Adsociation pipelina of the Investment of the Pin Adsociation of the

117

[Cartailment of Electric Power Service by the Tennessee Valley Authority]. B-114850. Newember 4, 1974 4 pp + enclosure (17 pp) Report to Sen. Bill Brock; by Elmer B Staats, Comptraller General

Organization Concerned: Tennessee Valley Authority. Concreasional Relevance: Six, Bill Brock.

Authenty: Federal Power Act, § 202(c) (16 U.S.C \$24z(c)). Federal Coal Mine Health and Safety Act of 1969 (30 U.S.C \$01)

The Tennessee Valley Authority (TVA) has taken actions to obtain additional coal supples and to conserve its exating supplies TVA has estimated that, providing there is not a length yout numeri strike, it can get through the winter of 1974-1975 without a cubset, in power service if it obtains reasonable success from sits request for coassumers to valuestrify reduce their use of electricity by 205.

Padings/Conclusions: Although coal production was up about 7% in the first half of 1974 compared with a sunitar period of the provious year, some of the increased production appeared to be available at prices and with contract terms which TVA generally has been unwilling to scorpt. TVA adopted an approach of paying some of the higher prices, but not the highest prices, being requested for costs refusing to change its coal duality guarantee and mining reclamation requirements; and taking alternative actions designed to reduce its cosl consumption. TVA has a task force working on a contingency plan which will be implemented if a mandatory outback in power is necessary. This contingency plan could include the elimination of all nonessential uses of electricity, certain mandatory reductions in use by all customers, and scheduled short-time interruptions of power on a rotational basis. The chances of success for TVA's program to obtain a voluntary reduction in the use of electricity probably will be improved if State and local government leaders in the areas served by TVA support the program and set an example by implementing the program in all State and local government facilities. (SC)

118

Problems in the Federal Energy Administration's Compliance and Enforcement Effort. B-178205. December 6, 1974. 15 pp. + 3 appendions (7 pp.).

Report to Sen. Abraham A. Ribicoff, Chairman, Scuate Committee on Oovernment Operations; by Phillip S. Hughes, Assistant Comptroller Operations.

Organization Concerned: Federal Energy Administration; Internal Revenue Service.

Congrassional Ralevance: Senne Committee on Government Oper-

Authority: Federal Buergy Administration Act of 1974 (88 Stat. 96). Emergency Petroleum Allocation Act of 1973 (88 Stat. 627). 18 U.S.C. 1905,

The future of petroleum product price controls is uncertain. Various Executive Branch officials have commented on the need to relax such controls. Ruisting legislative authority for petroleum product price controls is scheduled to expire on Pebruary 28, 1975, although bills are currently pending in the Concress to extend the authority through August 1975. Findings/Covelusions: There are significant problems in compliance with price controls among crude of producers, refiners of petroleum products, wholesalers, and retailers. There was almost no direct audit of operations of crude oil producers Federal Energy Administration (FBA) sudits at the retail level showed numerous violations and there was evidence of large violations at the wholesale level; audits of refiner operations were not completed; substantive issues relating to the adequacy of regulations remained unselved; and organizational disputes within FEA hindeted its reflerery audit work. FEA officials estimated that the matnirude of refineries' notential violations could be between \$1 and \$2 billion. FEA will have to strengthen its compliance and enforcement program at all levels if there is to be adequate assurance that firms are complying substantially with price regulations. Recommendataxes: FEA should consider the following alternatives for improving the effectiveness of its audits: increase the size of assigned staff and/or use a "strike force" approach where a team of suditors would visit selected firms and review key facets of the operations. If FEA wished to maintain a continuous presence at each refinery operation, one auditor could be permanently assigned for the purpose of identifying problem areas which may necessitate more detailed attention by a "atrike force" FEA should also centralize the control and direction of the auditors assigned to review refineries (Author/QM)

119

The Fuderal Europy Administration's Compliance and Enforcement Actuation. December 11, 1974. 11 pp.

Testaway before the Senate Committee on Oovernment Operations; by Phillip S. Hughes, Assistant Comptroller Goneral.

Organization Concerned: Federal Energy Administration. Congressional Relevance: Strete Committee on Government Operations.

Authority: Federal Energy Administration Act of 1974, § 12.

There are significant problems in the Paderal Energy Administration's (FEA's) compliance and enforcement program at all levels of notroleum industry operations. Review of the program should there was almost no direct audit of crude oil producer operations; FEA concentrated its audits at the retail level and found numerous viole. tions, sithough there was evidence of large violations at the wholesale level where little audit effort was made audits of reference operations were not completed; substantive issues relating to the ademater of regulations remained unresolved; and organizational disrutes within FEA hindered audit work at refinery operations. PEA officials advised GAO that a revised staffing plan had been approved which would permit audits of crude oil producers to begin, increase the audit attention at the wholesale and refinery level and decrease the audit attention at the retail level. GAO's evaluation of FEA's compliance and enforcement program was impeded by FEA's reluctance to allow full access to such information as records relating to active compliance investigations or audits which had not been

completed. A framework to instruct that such problems do not occur in the future has been proposed and is exported to be instituted. GAO concluded that if petroleum price control are to be consisted. PEA must strengthen its compliance and enforcement program as all levels if it is to have adequate assumes that firms are complying subanality with pricing regulations. (SC)

120

[The Federal Energy Administration's Progress in Redirecting Its Compliance and Enforcement Program]. B-176205. March 31, 1975. 3 pp.

Report to Sen. Abraham A. Ribicoff, Chairman, Senate Committee on Government Operations; by Phillip S. Hughes, Assistant Comptroller General

Organization Concerned: Federal Energy Administration.

Congressional Relavance: Senare Committee on Government Operations,

A 1974 report identified major problems in the Pederal Energy Administration's (FEA's) compliance and enforcement activities particularly a need for FEA to sudit producers of crude oil and to improve audits at the refinery level. Findings/Conclusions: FEA's planned staffing allocation change for the compliance and enforcement program was 784 additional employees by December 31, 1974. The actual change was 746 additional employees by March 14, 1975. Completion of the planned staffing changes had been delayed, primarily because of problems in redeploying staff among FEA regions. As of March 21, 1975, 40 crude oil producer audits had been completed and 87 additional audits of a planned 197 audits were in process. FEA uncovered 27 possible violations. As a result, the producers made two voluntary rollbacks and signed nine consent agreemonts and PEA issued two Notices of Probable Violations and drafted 14 additional notices. The two voluntary rollbacks resulted in refunds of \$158,698, and the nine consent agreements resulted in refunds of \$634,903 and negalities of \$46,658. The majority of the viciations uncovered resulted from producers claiming more new and referred oil production than their wells actually produced. After FEA completes the faitial 197 audits, it plans to audit the next 1,000 companies that show the largest percentage in new oil. (Author/OM)

121

Problems of Independent Refiners and Gaudine Retailers. OSP-75-11; B-178205. April 4, 1975. 16 pp.

Report to Son. Abraham A. Ribicoff, Chairman, Senate Committee on Government Operations; by Phillip S. Hughes, Assistant Comptroller General.

Organization Concurands Federal Baorgy Administration.

Congressional Relevance: Sente Committee on Government Operstions.

Authority: Emergency Petroleum Allocation Act of 1973 (37 Stat. 627). Pederal Energy Administration Act of 1974 (15 U.S.C. 761).

A number of independent retail gasoline operators have been forced to close. The Poderal Energy Administration (PBA) has made efforts to protect independent refiners and retail gasoline dealers.

Tradego-Chardenber Under PHA's vertred ernst ein inflatention explainten, mult effection, on he versegn operated heves 1972 explainten, mult effection, on he versegn operated heves 1972 effection and hergin independent refinerat generated heves 1972 effection and hergin independent refinerat generative pixel haber prior for crash of hand her enger of comparison. This occurred between doministrative produces of each of the second second second constantiative produces and object for we specification at an each or constantiative produces and an each of the second second second second second constantiative produces and object for we specification at an each or constantiative of integration and adaptive produces and the second second second second of integrations end and adaptive produces the second second second of integrations end and adaptive produces the second second second of integrations end and adaptive produces the second second second of integrations end and adaptive produces the second second second of integrations end and adaptive produces the second second

Energy Digest SEPTEMBER 1977

The Administration of the Petroleum Set-Aside Program by State Energy Offices], B-178205, May 8, 1975 8 pp.

Report to Frank Zaro, Administrator, Federal Energy Administration; by Monte E Cauffeld, Jr., Director, Office of Special Programs.

Organization Concerned: Arkansas: Office of Petroleum Allocation; Pederal Ilanegy Administration; Florida: Office of Petroleum Allocation, New Metrico: Office of Petroleum Allocation; New York: Office of Petroleum Allocation; Ottabema: Office of Petroleum Allocation; Virginite: Office of Petroleum Allocation; New York: Of-

Antonioni, Figunio Guide of recording Antonioni, A. Asthoniyi, Emergiancy Ferdolaum Allocation Act of 1973 (P.L. 93-159). Special Energy Research and Development Appropriation Act of 1975 (P.L. 93-202). Podoral Energy Administration Act of 1974 (P.L. 93-275).

At the height of the Arab oil embarge, the State Offices of Potrolown Allocation played an important role in alleviating temporary shortages of petrolesim products through allocations from the State set-atides to users who could not obtain fuel from their traditional suppliers and/or who had not been assigned new suppliers by the Federal Energy Administration (FEA). When the embarge ended and supplies of petroleum products became more plentiful the State set-sticies in Arkansas, Florida, New Mexico, New York, Oklahoma, and Virginia were no longer being used strictly for emergency and hardship cases. Findings/Conclusions: State set-aside fuel was allocated in many instances with no documentation or instances documentation that a hardship or emergency requirement existed. Because individuals were allocated State set-aside fael without adequate lustification that a hardship or emerkency existed, these individuals may have exceeded the allocations to which they were entitled under the regulations. In this respect, some individuals may have avoided filing with FEA for an adjusted allocation by repeatedly applying for and receiving State set-aside allocations, FEA has had a hands-off approach concerning the sel-sside program. The lax manner in which the State set-saide program apparently was adminstered may have stemmed from the increased supplies of petroleum products available compared with the supply situation when the allocation program was imposed. Recommendations: FEA should: recycluste its set-aside requistions to determine whether the antaside program should be continued in its present form; and consider reducing the amount of fuel allocated to the program, restricting the program to those petroleum products for which herdship or emersency requirements exist, or storping the program until such time as a shortage may again develop. If the program is continued, FEA should: review pertinent legislation to determine whether FEA has the authority to administer, evaluate, or investigate the use of State set-sside fuel and change the regulations or seek changes in the law to obtain that authority; determine whether State offices have established and are following consistent and concise criteria for evaluating hardships and emergencies; and determine whether State offices are allocating set-aside foois for reasons other than those of hardship and emergency and take appropriate action to correct any deficiencies in the crogram, (Author/QM)

12

The Effects of Oil Price Increases on Swell Business Contracts]. PSAD-75-72; B-178205. May 22, 1975. 3 pp.

Report to Rep. Mike McCormack; by Elmer B. Stasta, Comptroller General.

Organization Concerned: Department of Defease; General Services Administration.

Congressional Relevances Rep. Mike McCormack

Avthority: Defense Procurement Circular 120, OSA Procurement Letter 105.

Oil price increases in fiscal years 1973 and 1974 may have had some effects on small business contract made by the Department of Dofense. Findings/Checkadawa: The Inflation experiscoed during facel years 1973 and 1974 had an impact on profit, and the rate of inflation was affected by the increase in the price of oil and all-related produces. However, individes of eil-related locreases from other price locences that contributed to the inflution rate was addicate to achieve. Constructions unless of the influences of Definites sump huminess, from Stee-project constraints statisfield did on theory any newsource instraints due to only prior influences between the utility prior inthe statistical statistical and any prior of flags problem instraints of the prior influence statistical statistical statistical statistical statistical wide the periors and the for in the constraints states of the lange prior and prior influence statistical difference states with tatist difference and the prior interflags and the statistical statistical statistical statistical statistical statistical of approximately 31.3 kt/lines. Of these enternats, 5-279, constants constraints with 34 flags. (NA)

124

[Funds Credited to the Account of the Firgin Islands for Refunds from Import License Real. OSP-75-14; B-183222. June 13, 1975. 3 pp. Report to Rep. Ran deLugo; by Phillip S. Hughes, Assistant Comptroller General.

Organization Concernad: Department of the Interior, Federal Energy Administration; Virgin Islands

Congrassionel Relavanca: Rep. Ron del.ugo.

Authority: Presidential Proclamation 4227, Presidential Proclamation 3279, Presidential Proclamation 4210,

Before May 1973, the amounts of crude oil and commission products which could be imported into the United States were limited by a system of quotas, and taniffs were assessed against each shinmost of such goods. Under Presidential Proclamation 4227, license fees collected on imports into the customs territory of the United States of crude oil and petrojeun products manufactured in the Virsin Islands are to be held in a secarate Department of the Treasury secount and then refunded to the Virain Islands. The Department of Justice stated that the provision of Proclamation 4227 regarding refunds to the Virgan Islands is without legal foundation. A separate appropriation is required to pay the referreds, according to the Department of Justice. Legislation has been drafted roturing that refunds be paid to the Virgen Islands. The Congress has not acted on the proposed legislation Findings/Conclusions: From May 1, 1973, through December 31, 1974, a total of \$2,945,569 was to be credited to the Virgin Islands account in the Treasury The amount of refunds accrued in the account after December 1974 could not be determined horause the Oil Imports Office had not yet movined pertinent information. The Oil Imports Office could not recall being the source of the varying estimates of the amount credited to the Virgin Islands account. (Author/QM)

125

The Federal Energy Administration's Compliance and Enforcement Processes, June 19, 1975, 12 20

Testimony before the Senate Committee on the Judiciary: Administestive Proctice and Procedure Subcommittee; by Phillip S. Hughes, Assistant Comptroller General

Orgenization Conservatic Federal Energy Administration Contrastional Relevances: Senser Committee on the Judiciary: Administrative Practice and Procedure Subcommittee. Autionity: Federal Energy Administration: Act of 1974, § 12.

A point reaver of Federal Bargy Administration (FEA) compltion and enforcement effects treatmented initiation of a segaration to an effective result of the initiation of a segaration and an of any other setting and the segaration of the second setting and the second second second second second second second in estimation of the second and retail, resulting in refunds to the public totaling \$47 million. The tail amount amount of violations found under program wholestler investigations may amount to about \$30 million. FEA's nobit of suppliers of find of to utilities, frequent Utility, has avered implementation problem including including and quark investigations and find and deput in contained investigations, and several the processing of Notices of Probable Violation and remedial orders. (Qob)

126

[Federal Brargy Administration Efforts to Audit Fuel Oil Supplies of Major Utility Componies (Project Utility)]. OSP-76-2; 8-178205. July 15, 1975. 7 pp. + enclosure (1 pp.).

Repay to Prank Zarb, Administrator, Federal Energy Administration; by Monte Canfield, Jr., Director, Energy and Minerals Div.

Authority: Emergency Petroleum Aliocation Act of 1973 (87 Stat 627), Polemi Energy Administration Act of 1974 (88 Stat. 96).

Project Utility was an effort by the Federal Energy Administration (FEA) to audit the fact oil supplies of major utility combanies

Philippe/Calendarian: The effective anapose aniqued to the spectra have not free than the hord respective to EAA hordgarestilatencients and any among FRA regions resulted is subtancial asing the spectra of the spectra of the spectra of the spectra lines were display because of compute regions resulting indeparts applies results, and prove coefficience among FRA reposed effects. Regionary questions have insubated competitors of a utilities, due to insure the spectra of the spe

Recommendations: FEA should phase our Project Utility as a spociel effort, but complete promising investagations and ministee complisance actions within a specified time; return to balanced compliance operations covering modures, refines, wholesafers, and retulors; summare consistent etherals to relect supplem and identify supprices managements in the should be applemented on the state of the states and promptly inform field auditors of the broken's proper mass under FEA regulations. (Attainor JDM)

127

[Repeated Unlity Role Increase by the Potomoc Electric Power Company]. ICD-76-303, B-178205. August 11, 1975. 3 pn. Report to Rep. John E. Moss; by Robert G. Rothwell (for Pred J. Shafer, Director, Logicitics and Communications Div.

Organization Concerned: Department of the Treasury; General Services Administration; Poterme Electric Power Co.

Congressional Relevance: Rep John E. Moss.

Authority: Poderal Property and Administrative Services Act of 1949, as amended (40 U.S.C. 481; 40 U.S.C. 486). 41 C.F.R. 101-26.202.

The Deterministic of the T-merry suggested dust the General Bersive Administration (SGA) when it can built and the second Bersive Can (PERCO). Nearest FERCO approximation of the second fragment of the Second Second Second Second Second Second fragment (SGA) when the FERCO approximation is flavoring. JPA for Deterministic of the T-merry way for by social the second Second fragment (SGA) when the SECOND approximation is a second second fragment (SGA) when the SECOND approximation is a second second fragment (SGA) when the SECOND approximation is a second second fragment (SGA) when the SECOND approximation is a second second fragment (SGA) when the SECOND approximation is a second second second fragment (SGA) when the SECOND approximation is a second second second fragment (SGA) when the SECOND approximation (SGA) when the Second second second second second second fragment (SGA) when the SECOND approximation (SGA) when the Second se FEPCO witnesses on testimony they filed with the Commission. (Author/QM)

128

[Violation of Celling Prices in a Defense Fael Supply Center Sale]. August 12, 1975. 3 pp.

Report to Gorman C Smith, Assistant Administrator for Regulatory Programs, Federal Energy Administration; by Monte E Canfield, Jr., Director, Office of Special Programs.

Organization Concerned Department of Defense Defense Fael Supply Center, Alexandria, VA; Texaco, Inc. Autority: Defense Production Act of 1950, 38 F.R. 1052.

A possible violation of celling prices was found in a sale by Tennoo, Inc., under a fael contract with the Defense Fuel Supply Center, Texaco, Inc., exercised a contract option by delivering 235. 137 barrels of Navy distillate fuel to Port Arthur, Texas, at the contract price of \$.37 per gallon. The feel was for shipment by the Ovvernment to U.S. military installations overseas. According to the Pederal Energy Administration, this price was significantly higher than Texaco, Inc., could have charged for the fuel for use demestically at that time under guidelines of the Cost of Living Council. (Council) Findings/Conclusions: Although the fuel was purchased for use overseas, the shipment to Port Arthur was subject to Council prior regulations. There was no indication that the price rolings were intended to be limited in application to the industry involved in the ruling, but rather the principles discussed in the rulings appear to have been intended to apply to any situation where products destined for consumption at a foreign location would not produce revenue from a foreign source. (Author/QM)

129

Analysis of the Energy, Economic, and Budgetary Impacts of H.R. 6860 OSP(OPA)-76-3. September 1975. 26 pp. + appandis (6 pp.). Staff study.

Organization Concerned: Federal Energy Administration. Congressional Relevance: Senate Committee on Finance. Authority: H.R. 6860 (94th Cong.).

H.R. 6860 would impose quotes on imported potroleum products and take a number of actions designed to decrease domestic energy consumption. The bill would: (1) establish an import quots schedule, an import licensing system, and rates of duty on imported petroleum; (2) set automobile standards; (3) provide for tax incentives for enersy-related improvements of buildings and for purchase of electric motor vehicles; (4) establish an energy conservation fund: and (5) provide for business conversion for greater energy paving. Findings/Conclusions: To provide a basis for analyzing impacts of the hill, the domestic demand and supply of crude oil was projected at current world prices, assuming no restrictions on imports. GAO concluded that reductions in oil imports mandated by the bill exceed all projections for all consumption that would result from the bill's conservation provisions. The system for auctioning of import licenses, taken together with expected shortfalls in oil supply would tripper price increases of \$4 to \$6 a barrel for imported oil. Tressury receipts under the suction system were estimated to increase in the rarge of \$12 to \$18 billion each year through 1980. Increased prices of imported oil would trigger increases in the price of domestic uncontrolled oil and result in windfall profits for oil producers. Price increases would be inflationary and lead to increased unemployment. Only automobile efficiency standards and tax credit for insulation of residences were thought likely to achieve measurable reductions in energy consumption. (HTW)

130

Next for the Fuderal Power Commission to Evolucite the Effectiveness of the Natural Gar Cartalineous Publics, RED-76-18; B-181503. September 19, 1975. 17 pp. + 2 appendices (20 pp.) Report to Rep. Pierre S. du Pont: by Elitter B. Staats, Comptroller

General.

Organization Coscensed: Federal Power Commission

Congrassional Ralavones: Rep Pierre S. du Post, Authority: Federal Power Act (15 U.S.C. 792). Natural Gas Act (15

U.S.C. 717). Federal Energy Administration Act of 1974 (88 Stat. 96). F.P.C. Order 431.

The Federal Power Commission (FPC) lacks authority to obtain the necessary information to evaluate the effectiveness of its natural gas curtailment policy hoosuse its jurisdiction does not extend to intrastate pipeline and distributing companies. The Commission is attompting a coordinated effort with the Federal Energy Administration (FEA) to obtain the noticed information, but the effort has not been underway long enough to determine its value. Findings/Conclasion: To evaluate the effectiveness of its curtailment policy, the PPC needs information on the end use of gas supplies and on the economic impact of the shortages on the areas affected. Without such information, the FPC cannot determine whether pipeline companies are distributing available natural gas as specified in approved cartaliment plans or whether modifications are needed to achieve curtailment policy objectives. Recommendations: The FPC should report to the Congress on the results of the attempted coordinated effort with FEA. If the desired results are not obtained from this effort or if the Commission finds the mechanism too cumbersome, the Commission should seek legislative revisions to the Natural Gas Act to extend the Commission's authority to obtain information on natural gas sales by intrestate pipeline and distributing companies, and on the end use of the gas by ultimate consumers who parchase the gas from interstate and intrastate pipeline and distributing companies. (\$C)

131

Comments on Proposed Legislation to Charge Basis for Generation Charge, for Uranian Environment Services. RED-76-30; B-159687. September 22, 1975. 12 pp.

Report to Sen. John O. Pastore, Chairman, Joint Committee on Atomic Energy; by Elmer B. Stasts, Comptroller General.

Organization Concerned: Energy Research and Development Administration.

Congenualized Releventar Joint Committee on Atomic Beergy Authority: Private Dwarnhip of Special Nuclear Materials Act of 1964 (P.L. 83-489), Atomic Energy Act, as amanded (P.L. 91-560), DMS Circular A-96, Revised.

The Energy Research and Development Administration (ERDA) monosed legislation which would change the basis of the Government's charge for uranium enrichment services from the current cost recovery method. Finding/Conclusions: The proposed changes would allow the Government to obtain fair value for its enrichment services and would eliminate or reduce the difference between the Government's charge and that of potential private earlichers. The sacumptions made by ERDA in developing its proposed prices are within a reasonable range: however, they are judgescatal and it is difficult to conclude that they are the most reasonable assumptions. If the proposed legislation were enacted, ERDA would initially implement the law by increasing its enrichment services charge to \$76 for each senserate work unit to include attounts representing costs which would normally be incurred and considered in a commercial fem's charge. Recommendations: The Joint Committee on Atomic Energy should consider revising the proposed legislation to that any changes in the basic approach used in arriving at the fair value charge for the Government's unmitte enrichment services and any additions to this charge necessary for not discouraging the development of private supply sources would be included in the utanium enrichment criteria and should be submitted to the Joint Committee with them. (Author/SC)

132

Problems in Liouring Hydroelectric Projects. RED-76-13; B-115398, September 23, 1975. 20 pp. + 3 appendices (12 pp.). Report to the Congress: by Elimer B. Staats, Comptroller General.

Orgenization Concern & Federal Power Commission

Congressional Ralava: ta: Congress

Authenity: Federal Power Act of 1935 (16 U.S.C. 791 et seq.). Pederal Water Power Act of 1920.

Large delays exist in the licensing of hydroelectric projects by the Federal Power Commission. Findings/Conclusion: The backlog of applications has been growing steadily for years, and the number and slow rate they are acted upon are cause for concern. As of December 31, 1974, there were 502 backlog applications, which have been pending an average of 60 months. Most of the time needed to license a project is outside the control of the Federal Power Commission (FPC), but, to the extent practicable, delays should be eliminated because licensing projects offer considerable rublic benefits as upcreased electric power and recreational facilities. The Commission contributes to delay by extending reporting deadlines after giving applicants 30 to 90 days to comply with requests for needed information. The FPC never prosecuted these who failed to provide needed information. The required process of obtaining comments from other Federal agencies is often lengthy and time consuming. Recommendation: The EPC should: establish followup procedures and standards ensuring that information needed to process applications is pursued agaressively; prosecute those delaying the licensing process; enter into interpretery agreements to formalize the role of other Federal agencies in the licensing process; require applicants to pay reasonable annual charges for administening the licensing program, or retroactively charge for proviously constructed projects when applications are filed, systematically evaluate constructed projects to ensure that all projects under FPC jurisdiction are hornsed; not automatically extend reporting deadlines, and use its enforcement powers to most its statutory responsibilities (Author/DJM)

133

Federal Energy Administration's Efforts to Audit Domastic Crude Orl Producers. OSP-76-4; B-178205. October 2, 1975 12 pp + enclosure (1 pp).

Report to Sen. Abraham A. Ribicoff, Chairman, Senate Committee on Government Operations; by Monte Canfield, Jr. (for Phillip S. Hughes, Assutant Comptroller General)

Organization Conternad: Federal Energy Administration

Congressionel Relavance: Swatt Committee on Government Operations.

Authority: Emergency Petroleum Allocation Act of 1973 (87 Stat 627). Federal Energy Administration Act of 1974 (88 Stat 96)

The Pederal Energy Administration's (FEA's) audits of mdependent crude oil producers have disclosed substantial violations of crude oil pricing regulations; however, FEA has done limited endit work at the major oil companies that produce the majority of the domestic erude oil and thus has been unable to determine their compliance with the regulations. Findum/Carcinalons: As of Auaust 22, 1975. FEA audits of independent producers' operations resulted in: consent agreements with 35 producers under which the producers agreed to refund a total of \$3.2 million to customers and to pay penalties of about \$115,000, notices of probable violation issued or being prepared for 52 other producers involving about \$11 million in potential violations, and investigations of 163 producees completed without any violation being detected Since FEA regions did not follow a uniform policy for compromising civil penalties. producers that were determined to be in violation of price regulations were treated inequitably. Recommendations: FEA should: intensity the coverage afforded production operations of major oil companies. expedite efforts to identify and discontrate to the regional offices the names of independent producers that are, according to reports submitted to FEA, most likely to be in violation of pricing regulations; and insure implementation of a uniform policy regarding penalties which should be sought and collected from producers that are deter-

mined to be in violation of FEA printing regulations. (Asthor/QM) 134 Evaluation of the Administration's Proposal for Government Assistance is Phone Unnian Evrichment Groups. RED-76-36; B-19687. October 31, 1973. 47 pp. -1 a specificien (17 pp.).

Report to Sen. John O. Pastore, Chairman, Joint Committee on Atomic Energy; by Elmer R Staats, Comptroller General.

Orgenizetien Concerned: Energy Resourch and Development Administration; Uranium Enrichment Associates.

Cangessienel Relavence: John Committee on Atomic Energy. Authenty: Ninclear Poel Assumance Act of 1975; S. 2035 (Oth Ocn), Atomic Energy Act of 1954, as amended (PL 83-703). Private Ownership of Special Nuclear Materials Act of 1964, as amended (PL, 18-439).

Legislation has been proposed to encourage "privatization" of the uranium enrichment process. The legislation would: authorize the Energy Research and Development Administration (ERDA) to enter into cooperative arrangements with private firms: authorize ERDA to provide assistance and assurance under such arrangemeats limit the 11% Government's total potential liability to \$8 billion; authorize ERDA to start construction planning and design activities for expanding one of the Government's existing enrichment facilities as a contingency measure, and provide for congressignal review of the basis for the cooperative arrangements by the Joint Committee on Atomic Energy. Findings/Conclusions: The next increment of uranium enrichment capacity should be achieved by adding on to the existing Government gaseous diffusion plants because Uranum Enrichment Associates' proposal is not acceptable chiefly because it shifts most of the construction and plant-proving risks to the Government: a decision is needed now, there is a greater notenceal for alienage in the invate group's schedule for bringing additional capacity on-line; additions to existing plants can be done at an estimated construction cost of \$2.1 billion as compared to the estimated cost of the private group constructing a plant of \$2.7 billion, an add-on can be phased in increments thereby keeping additional gaseous diffusion capacity at the minimum consistent with the development of centrifuge technology, and maximizing flexibility to deal with problems of changing domands or poor projections, and management of the Government facilities could be accomplished more effectively by a corporation having a self-financing authority.

Brownwadnine: The Joint Committee on Atomic Benergy and cancile automatical BEDA to construct the next interment of the arithment capacity using the power endefinent process, exhibiting a Commente corporation with self-financial sub-forty to manage endefineent andiffusion and torating BEDA to eader into cooperative agreements with private encoders using advanced technologies. (Author) (AM)

135

Implications of Deregolating the Price of Natural Gas. OSP-76-11; B-181503 Imary 14, 1976 55 pp. + appendix (2 pp.). Report to Rep. Jack Brooks, Chairman, House Coanalities on Goverment Operations, by Elmer B. Shata. Report on finat part of study issued as GAO RED-76-39, October 31, 1975.

Congrassionel Ralavonca: House Committee on Government Operations.

Deregativitos of nativai gas sold la ingressiane commerce in ungegendateritos nos nexes y to reverse a nativai gas. Pauling://correlations: Even with production of nativai gas. Pauling://correlations: Even with higher profess weaks have a nativai gas and a second second second protects in additional to profess and the head higher profession weaks to factor in addition to profess and the head high profession water protects and addition to profess and the head high profession additioners there. Benergatives, however, norghing and the head high profession additions which. Benergatives, however, norghing have the gas and defines. The which benergatives, however, norghing have the gas and defines. The pret of meaning gas well extension to rise, online under regulations: core descriptions: Multi-extension of the matter regulation is the respective problem of the second second

136

The Implications of Deregulating the Price of Natural Gas. January 15, 1976. 11 pp.

Testwary before the House Committee on Interstate and Poreign Commercer Energy and Power Subcommittee; by Phillip S. Hughes, Assistant Comptroller General

Congrassional Ralavanen: House Committee on Interstate and Poreign Commerce: Energy and Power Subcommittee

A study of the energy supply, economy, social, and environmental implications of deregulating the price of natural gas from 1975 to 1985 showed that, even with deregulation, natural gas supplies are likely to decline during this period. With continued low prices, natural ars supplies should decline about 20% by 1985. With deregulation, this decline would be slower, about 13% by 1985. However, in either case the United States is unlikely to ever again achieve the production levels of the recent past. The Nation's natural gas bill will increase even with regulation. With deregulation the increase would be more rapid, but by 1985 the differences would be quite small, Continued meulation at low prices will put a disproportionate share. of the natural gas abortfall on the interstate market. Reaching a ducision regarding deregulation requires weighing a set of interrelated trade-offs, which should include: the additional semplies of gas likely to result from deregulation; the additional costs to consumers: the countering and social posts of continuing a regulatory framework, including the fostering of separate interstate and intrastate markets; and alternatives such as regulation at higher prices and bringing intrastate supplies under Federal regulations, (SC)

133

Amount of Natural Gas that Could Be Released from Poleral Price Regulations upon Expiration of Contracts from 1975 through 1985. January 26, 1976, 6 pp.

Testinony before the House Committee on Interstate and Poreign Commerce: Energy and Power Subcommittee; by Henry Eschwege, Director, Resources and Economic Development Div.

Organization Concerned: Federal Power Commission. Congressional Relevances: House Committee on Interstate and Forrign Commerce: Energy and Power Subcommittee. Authority. 18 C.F.R. 134.93.

If the law were to remove the price regulation over natural gas, the volume of gas released from regulation upon the expiration of sales contracts between producers and interstate pipeline companies could amount to about 29 trillion cubic feet (TCF) during the period 1975 through 1985, assuming that the production from existing wells continues at a constant rate. This estimate is based on contract data which received limited verification by the Federal Power Commission (PPC) and which was somewhat incomplete. Three methods were used to determine at what rate productivity from existing reservoirs will decline in order to develop estimates on the cumulative volume of gas that would be released from regulation: assuming the Davis Doeline Curve, the total volume released would be 9.1 TCP; assuming the National Availability Curve, the volume would be 12.7 TCF; and assuming the Total Energy Resources Analysis (TERA) Curve, the volume would be 7.7 TCF. The amount of gas currently under contract which would be deregulated could also be affected by

Energy Digest SEPTEMBER 1977

Indefinite pulsing clauses in existing contracts which provide for forme changes in the proo of gas add. Provisions of the decequilities statics and/or PPC relearning access world affect the langest of the static static static static static static static statics. Many of these indefinite prime glauses access from price controls, Many of these indefinite prime glauses access the static metians on producers to that needed data set recently worldb/for true in future Scattering static static static static static static in future Scattering static static

158

[Galf Oil Corporation's "Dawhie Dipping" on Crude Oil Product Contr]-OSP-76-13; E-178205. February 9, 1976. 4 pp.

Report to Rep Les Aspin; by Phillip S. Hughes, Assistant Comptroller General.

Organization Concerned: Gulf Oil Corp., Federal Energy Administration.

Congressional Raisvance: Rep. Les Aspin.

Authority: Emergency Potroleum Allocation Act of 1973 (87 Stat. 627). Federal Energy Administration Act of 1974 (88 Stat. 96). Energy Policy and Conservation Act

The term Neulosi diff means do receivery of certain increased between the second set of companies, as improved these Posterial Control of Companies and Companies and Companies and Control of Companies evolutional data and the second second

139

[Problems in Regulating Natural Gas Prices by the Paleral Energy Administration]. OSP-76-15; B-178205. February 25, 1976. 9 pp. + appendix (1 pp.).

Report to Sen. Edward M. Kennedy, Chaiman, Senate Committee on the Judiclary: Administrative Practice and Procedure Subcommittee; by Phillip S. Hughes, Assistant Comptreller General.

Congressional Relevance: Senstr Committee on the Judiciary: Administrative Practice and Procedure Subcommittee,

Authority: Emergency Fetroleum Allocation Act of 1973 (P.L. 93-159). Federal Energy Administration Act of 1974, § 5(b)(11) (P.L. 93-275). 10 C.P.R. 212.

The major problems in developing, implementing, and enforcing the Pederal Energy Administration's (FEA) regulation of the price of natural and liquids (NGL) were examined. Endiner/Conclusions: Federal laws direct the FEA to regulate the prize of at least two NOLs, butane and propane. However, the legislation was not specific, and FBA price regulations were poorly suited for application to NGL plants, resulting in considerable industry confusion. PEA did not implement a meaningful compliance and enforcement program; however, many companies did not know that the price regulations pertained to them. In January 1975 the FEA implemented specific regulations for NOL plants and in August 1975 applied them retrospectively. Because of numerous requests for clerification. FEA proposed amendments to include provisions inadvertently omlitted and to adapt them more specifically to eas plant operations. FEA recently started some limited compliance andits of cas processors. FEA officials acknowledged that the solution of the pricing of NGL took anduly long. Several producers/refiners are currently challenging FEA's legislative sutherity in court. (Author/DJM

Conservation on the Administration's Proposed Synthetic Fault Commercial-Ization Program. RED-76-52, B-178205 March 19, 1976 19 pp. + 2 appendices (10 pp.).

Report to Rep. Ken Hechler, Chairman, House Committee on Science and Technology: Energy Research, Development and Damonstration (Fossil Fuels) Subcommittee; by Elmer B. Stanta, Comptroller General.

Organization Concernad: Energy Research and Development Administration

Congressional Relevance: Houre Committee on Science and Technology: Energy Research, Development and Demonstration (Fossil Fuels) Subcommittee

Authority: Federal Nonnuclear Energy Research and Development Act (42 U.S.C. 5901). Energy Reorganization Act of 1974 (42 U.S.C. 5801). S. 2532 (94th Cong.). H.R. 3474 (94th Cong.).

Proposals providing for Federal assistance to aid industry in building a limited number of commercial-scale synthetic fuel plants. using technologies which have advanced to the point where lacacscale plants can be built to help demonstrate their economic and environmental viability, have been or are being considered by Conerror. Andare/Conclusion: The Energy Research and Development Administration (ERDA) believes that the major contribution from these slants will be the environmental and economic information that will be generated in locating and operating them. This information could pave the way for industry and governmental regulatory bodies' involvement in the commercialization of a large number of coal gasification and oil abale plants. In anticination of legislation authorizing this activity, ERDA plans to make various studies simed at: undertaking strategy and policy analyses necessary for program implementation; initiating long lead-time activities related to program implementation such as environmental impact statement finalization and program regulations; and informing the public, Congress, States, and other groups about the proposed program. Recommendations: Congress should consider awaiting the completion of these studies before considering letislation suthorizing a commercial demonstration program. Congress should consider specifically requiring BRDA to delineste and justify the scoot and magnitude of Federal assistance it feels will be needed to implement the property and to justify the type and number of plants needed to accomplish the program's objectives. (Author/SC)

141

Financing for Commercial-Steed Demonstrations of Energy Technologies. April 1, 1976. 10 pp.

Testimory before the House Committee on Science and Technology; by Phillie S. Huches, Assistant Comptroller General.

Organization Concerned: Energy Research and Development Administration

Congressional Raisvances Houre Committee on Science and Technology.

Authority: Energy Policy and Conservation Act of 1975. H.R. 3474 (55th Cong.). H.R. 12112 (95th Cong.).

Legislation regarding financial apport for synthetic fuels and other energy development should be coordinated in a comprehensive framework including all likely development costs and details. Such legislation authorizing financing by means other than the appropriation process should include provisions for annual review by the Congress coupled with such limitations and allowances for flexibility as deemed appropriate. Close scrutiny should be given to the number and size of nonsynchetic fuel commercial demonstration facilities proposed by the Energy Research and Development Administration (ERDA) and to any information obtained under this program before suthorizing the planned research and development on synthetic fuel plants. The question of Government assistance for encouraging the commerciplization of synthetic and nonsynthetic fuel technologies might be better resolved within the broader scope of the proposed Energy Independence Authority with financial assistance authority covoring all forms of energy supply, rather than a select few. Questions could be rested regarding: the desirability of subsidizing high cost synthetic fuel output when the price of domestic oil is regulated at an average price; and the incremental versus average pricing of synthetics. (Author/OM)

142

Developing and Convercialiting Energy Technology. April 13, 1976.-16 cp. + appendices (11 pp.).

Testimary before the Senate Committee on Banking, Housing and Urban Affairs; by Monte Canfield, Jr., Director, Office of Special Programs

Congressional Relevances Searce Committee on Banking, Housing and Urban Affeirs.

and cronn Atlants. Arthenity: Federal Barryy Development Impact Assistance Act of 1976; S. 3007 (54th Cong.); H.R. 11792 (54th Cong.); Barryy Jidependence Ambority Act of 1975) S. 2532 (34th Cong.); H.R. 10267 (94th Cong.). S. Paramaner, Tax Reduction Act of 1975; H.R. 1016 (94th Cong.). S. 973 (94th Cong.). H.R. 524 (94th Cong.).

Proposed legislation being considered by the Congress would provide various combinations of Federal financial support for developing and commercializing energy technologies. There are three main types of logislative proposals to financially assist the development of now energy technologies: I)subsidies to States and local governments in regions which are largely rural and unindustrielized to help them plan for development and to provide the public facilities necessary as a result of the development; 2)incentives to build and operate new risky commercial or near-commercial facilities in the form of losn guarantees, interest subsidies and tax write-offs; and Numbridies to the producers of synthetic fuels in the form of price supports or to users in the form of tax incentives or low interest loans. The Administration's most comprehensive energy development proposal would establish an Energy Independence Authority (EIA) and encourage the development and commercial operation of domestic energy sources. This bill (S. 2532) exhibits a clear preference for initiatives of the supply-increasing type and would hamper conservation efforts. GAO has conducted and is conducting studies on the mestion of Pederal financial assistance for developing and commerelulizing energy technologies, (SC)

143

[Federal Assistance to State and Local Governments in Developing and Administering Energy Programs]. OSP-76-20; B-178205. April 23, 1976. E pp.

Report to Frank G. Zarb, Administrator, Federal Energy Administration; by Monte Canfield, Jr., Director, Office of Special Programs.

Authority: Federal Energy Administration Act of 1974. Energy Policy and Conservation Act.

The Federal Energy Administration's (FEA) assistance to State and local governments in developing and administering energy programs was surveyed. Findings/Conclusions: Several weaknesses were found in program planning and direction which have inhibited FEA's ability to significantly affect State and local activities in dealing with energy problems. Little coordination and communication were found between FEA heedquarters, FEA regional offices, and State energy offices on energy conservation, and ineffective use of manpower was found in dealing with other significant energy problems and issues. Studies of the growing natural gas shortage, for instance, were independently made by all three entities, and often amounted to duplication of effort. The use of coal and alternate energy resources (solar, gnothermal, solid waste) was given minimal attention. Recommendations: PEA should autablish a plan setting forth FEA programs which should involve State and local governments, and the manner of their involvement with FEA headquarters and regional offices. The plan should provide for more effective communication and coordination between regional offices to insure a single purpose in carrying out such programs and the maximum flow of information along organizational elements. (DJM)

Importance of Financial Data in Evaluating Federal Energy Programs. April 28, 1976. 19 pp

Speech before American Gas Association-Edisen Electric Inst. Accounting Conference, Houston, TX; by Elmer B. Staats, Comptreller General.

Organization Concerned: Cost Accounting Standards Board; Federal Energy Administration; Financial Accounting Standards Board; Securities and Exchange Commission.

Authority: Energy Policy and Conservation Act; S. 2872 (94th Cong.).

Congress is interested in using accounting in carrying out national policies. The Cost Accounting Board seeks to achieve consistency io cost accounting under covered Government contracts. Diselosure Statements are used to provide for knowledge, in advance of contracting, of the cost accounting practices which the contractor will sotually use. The Energy Policy and Converyation Act will establish a strategic petroleum reserve, set a ceiling prior for domestic crude oil, and mandate auto efficiency standards. The act will increase the Federal Recrey Administration's (PRA's) responsibilities and give GAO new suthorities including the right to impect the books and records of private persons and companies under certain conditions. GAO has about 90 energy attudies underway or planned. One study of natural gas deregulation concluded that, even with deregulation, natural ass production is likely to continue its decline, Without it, though, production would depline even more steeply. The economic tradtoffs involved in alternative courses of action must be carefully wrighted. The best long-term or replicational approach to the solution of energy problems would be to establish a Department of Energy and Natural Resources. Baergy conservation should be given higher priority in national policy. (OM)

145

Comments on Selected Agnetic of the Administration's Proposal for Generators Amistance in Private Unaclum Enrichment Groups, RED-Fol 10, B15967, May 10, 1976. 2, pp. + 3 appendices (33 pp.), Report to Rep. Melvin Prior, Vice Chairman, Joint Committee on Atomic Energy by Elmer B. Stats, Computoller General.

Organization Concerned: Energy Research and Development Administration; Uranium Enrichment Associates.

Congressional Relevences Joint Committee on Atomic Energy. Authority: Nuclear Fuel Assurance Act of 1975; H.R. \$401 (94th Cong); S. 2035 (94th Cong). Atomic Energy Act of 1954, as amended (42 U.S.C. 2031(6)(4); 42 U.S.C. 2133(d)). Congressional Bodget: Act of 1974 (PL. 2)-3-344).

The Nuclear Fuel Assurance Act proposes Government assistance to private uranium anrichment arouns. Of specific concern is a proposal from Uranium Enrichment Associates to provide the next Increment of enrichment capacity. Findings/Conclusions: Management of the Government enrichment facilities could be accomplished more effectively by a corporation having a self-financing authority to borrow funds from the Treasury or the public. A self-financing proposal would free the corneration from the budgetsry requirement of seeking congressional approval of appropriations, thereby achieving a major goal sought by the present legislative proposal. The Joint Committee on Atomic Energy should approve logislation authorizing the Energy Research and Development Administration (BRDA) to construct the next increment of enrichment capacity using the proven enrichment process. ERDA should sook and encourage private industry to continue offorts in advanced technologies through explicit programs, Government assistance and assurances will be required. The Government should seek an equitable sharing of risk with the private enrichers. (Author/QM)

107

146

Developing and Commercializing Energy Technology. May 24, 1976. 9 pp.

Terrimoty before the House Committee on Banking, Currency and Housing Becommit Stabilization Subcommittee, the House Committee on Interstate and Porcing Commerce: Ronzy and Power Subcommittee, by Meente Canfield, Jr., Director, Energy and Mineralis Div.

Organization Cancernad: Energy Research and Development Administration.

Congressional Ralevances: House Committee on Banking, Currency and Housing: Economic Stabilization Subcommittee; HouseCommittee on Interstate and Foreign Commerce: Energy and Power Subcommittee.

Authoritys S. 2532 (94th Cong.). H.R. 12112 (94th Cong.).

There are three main types of legislative proposals to financially assist the development of new energy technologies: "Yront-end" assistance or subsidies to states and local governments in regions which are largely rural and unindustrielized; incentives in the form of loan suaranizes, interest subsidies and tay writeeffs for rejuctant private avestors: and subsidies to readucers in the form of tax incentives or low interest loans to enable higher cost technologies to compete in the marketplace. A bill is being considered which would establish an Bastray Independence Authority (RIA) to encourage energy drivelotment and conservation. The proposed bill shows a preference for initiatives of the supply-increasing variety. It would actually hamper conservation efforts because it would result primarily in the allocation, not the creation, of espital. The bill is underlaid by some assumptions regarding national policy which are by no means settled, notably its predilection toward nuclear power generation. The Congress should consider awaiting further Energy Research and Development Administration (ERDA) studies before approving any legislation. Information which should be available from ERDA and GAO in the summer of 1976 should be helpful to the Congress as it proceeds toward final legislative action on bills dealing with the Pederal financial support for construction costs, prior supports, and initial costs to State and local governments for energy programs. (Author/QM)

147

Actions Taken by the Federal Power Commission on Prior Recommendations Concerning Regulation of the Natural Gas Industry and Management of Internal Operations, RED-76-108; B-180228, May 24, 1976. 13 pp. 4 appendicts (4 pp.).

Report to Rep. John E. Moss, Chairman, House Committee on Interstate and Foreign Commerce: Oversight and Investigations Subcommittee; by Elmer B. Stasta, Comptroller General.

Organization Concerned: Federal Power Commission.

Congrussional Ralavances: House Committee on Interstate and Foreign Commerce: Oversight and Investigations Subcommittee. Authority: Natural Gas Act. F.P.C. Order 402, F.P.C. Order 402-A. F.P.C. Order 491, F.P.C. Order 418, F.P.C. Order 455, F.P.C. Order

P.P.C. Order 491. P.P.C. Order 418, F.P.C. Order 455, F.P.C. Order 455-B. F.P.C. Opinion 699, P.P.C. Opinion 699-B, 18 C.P.R. 3.735. Bxecutive Order 11222.

The Florad Yore: Commission (GPC) to industration the outof Conf. prior transmission constraints for a starting and backtary. Conf. prior transmission to the outor of the outor of the outor of the starting of the outer of the outer of the outer of the outer of the start of the outer of the outer of the outer of the outer of the start of the outer of the start of the outer outer of the outer outer of the outer outer of the outer of the outer outer outer outer of the outer out sales: require that formal followap procedures to established to data 60-day emergency asks data when the data are not promptly reported, including specifics on when the pestity provisions of the Natural Oas Act should be invested; and keep data shout emergency reles that continue beyond 60 days reparate from other emergency rules that continue beyond 60 days reparate from other emergency usies data (Anthor/QM)

148

[Requests to Regulatory Agencies by Oll Companies for Deviations from Standard Procedures], OSP-76-25; B-156603. June 15, 1976. 7 pp. + enclosure (2 pp.).

Report to Rep. Ovorgo Miller, House Conscittee on Interstate and Poreign Commerce; Rep. John E. Mons; by Phillip S. Hughes, Assistant Comptroller General.

Organization Concerned: Environmental Protection Agency; Fodreal Energy Administration; Federal Maritime Commission; Federal Pover Commission; Federal Trade Commission; Department of the Interior; Interstate Commerce Commission; Department of Transportstion; Sourities and Exchange Commission.

Congressional Relavance: Rep. George Miller; Rep John E. Moss-

A number of deviations from standard operating procedures wer requested from Federal regulatory agencies from September 1973 through October 1975. Findings/Conclusion: The Environmental Protection Agency received requests from the Offshore Operators Committee, Shell, Sun Oil, Texaco, Gulf Oil, and Atlantic Richfield for chaeses or relaxation of requirements related to discharges, effluents, or sulfur content, Federal Energy Administration information revealed 181 requests, none involving procedures which would distort financial reporting, of which 33 were granted and 2 partially granted. No requests were received by the Federal Maritime Commission Requests received by the Federal Power Commission related to extensions for filing forms and recrusideration of termination of procedures for emergency sale of natural gas. The Federal Trade Commission reported motions by companies to cussh orders for filing special reports. Department of the Interior received requests dealing with testing requirements of coupment The Incorstate Commerce Commission reported 12 requests for deviations pertaining to onshore operations. Only the Coast Guard and Materials Transportation Eurese of the Department of Transportation recolved requests for modification. The Securities and Exchange Commission did not exempt oil companies from information discissure requirements, except for five waivers which were considered reasonable. (HTW)

149

[Effects of a Change in Size Standard for Small Basiness Potroleum Refiner]. June 18, 1976. 3 pp. + exclosure (9 pp.) Report to Rep. John E. Mass, Rep. John D. Dingell; by Robert F. Keller, Acting Comstroller General.

Organization Concurred: Small Business Administration; Defense Supply Agency; Geological Survey.

Congressional Relevanta: Rep John E. Moss; Rep John D Dingell Authority: 13 C.F.R ch. 1, part 121.

The Groupe 1975 sharps in the tirse marked in personal contents, out of even with the lar J and the Sharp Barane endowed and the Sharp Sharps and the Sharp Barane without length large the sharp sharps and the Sharp Barane without length large the sharp sharps and the Sharp Sharps and Sharp Sharps and Sharps and Sharps and Sharps and Sharps (HD) prior to equation and in the sharp sharps and the HD and the sharps and the sharps and the sharp sharps and the sharps and the sharps and the sharp sharps and the sharps and these sharps and the sharps and these sharps and the sh reserved for sale to small refiners. Three agency officials who had earlier recommended a more limited increase now stated that the new standard was justified. An examination of the former Administrator's appearament book did not show that he was contacted by refiners directly affected by the change. (HTW)

150

Budgeting of Federal Financial Intentives for Energy Development. July 27, 1976. 3 pp.

Testmosy before the Senate Committee on Budget; by Phillip S. Hughes, Assistant Comptroller General.

Organization Contamod: Energy Resourch and Development Administration.

Congressional Relavance: Senste Committee on Budget.

Awheeltys Nuclear Fuel Assurance Act, S. 2015 (94th Cong.). Synthetic Paels Demonstration Plants Bill; H.R. 12112 (94th Cong.) S. 2532 (94th Cong.).

Legislative proposals before Congress aimed at fostering the development of new energy supply technologies include S. 2532 to establish the Energy Independence Authority; S. 2035, the Nuclear Assurance Act: and H.R. 12112, to amend the Federal Non-Nuclear Energy Research and Development Act of 1974, \$2035 would authanze the Energy Research and Development Administration (ERDA) to enter into contracts with firms for building privatelyowned stanium entrehment plants with total authority of \$8 billion. H.R. 12122 would authorize ERDA to provide private firms up to 54 billion in support for synthetic fuel, renewable resources, and industrial conservation projects. GAO advocated fail disclosure of the budget impact of Federal coedit programs and expressed support for recommendations of the 1967 President's Commission on Budget Concepts which urged a unified budget. Off-budget programs have departed from this concept and would be substantially increased by ensciment of the financial mcentives under cansideration. The Joan guarantee technique may not be the most effective way to achieve the objectives of the bills and the proposed losn guarantees should be carefully weighed against other options. (HTW)

15

An Evolution of Proposed Federal Assistance for Financing Commercoelization of Emerging Energy Technologies. EMD-76-10, 8-178205. August 24, 1976. 56 pp. + appendices (9 pp.).

Report to the Congress; by Eimer B. Staats, Comptroller General.

Organization Concerned: Energy Research and Development Administration; Federal Energy Administration.

Congressional Relavance: Congress.

Authority: Energy Policy and Conservation Act (P.L. 94-163). Congressional Budget Act of 1974, tnles I-1X (P.L. 93-344). P.L. 94-385. S. 2532 (94th Cong.). H R 12112 (94th Cong.).

Proposed legislation before Congress would provide Federal assistance to encourage private use of a variety of energy technologies.

Findings/Owclasions: Three factors to be considered in the selection of technologies are: contributions to meeting the Nation's noergy needs, costs, and eventual selling price. In choosing financing mechanisms, factors to be considered are the technology's state of development, its economic feasibility, and groups whose actions would be influenced. Based on its analysis of energy options, GAO concluded that conservation should have top priority. Among techsologies to increase otergy spotly, hydrothermal energy, municipal waste combustion, solar heating, and tertiary oil recovery were considered mest cost effective and, thus, to be given priority. Synthetic fuel would not be competitive with foreign oil, and new technological privances may make early plants obsolete before they operate. Therefore, financial assistance for commercial development in this field was not favored. Recommendations: Congress should place eriority on energy conservation, enourage solar heating, maintain oversight of tertiary oil recovery, and consider action to encourage cousicired waste combustion. It should also consider the advisability of legislation authorizing Federal loan automates to builders of worthetic feel

plants, and consider directing the Energy Research and Development Administration to continue research and development and to construct smaller plants which could supply necessary information. (HTW)

152

An Extuation of Proposed Federal Assistance for Financia Commencollutions of Evenering Every Technologies. August 30, 1976. Il pp. Testimosy before the House Committee on Internate and Forcing Commerces Energy and Power Subcommittee Unit Heises Committee on Soincer and Technology; by Phillip S. Hughes, Assistant Comptroller Ganeral.

Organization Concerned: Energy Research and Development Administration

Congressional Relevance: House Committee on Interstate and Forough Commerce: Energy and Power Subcommittee, House Committee on Science and Technology.

Authority: Synthetic Pirels Demonstration Plants Bill; H.R. 12112 (94th Cong.)

Several hills introduced in Congress would provide Pederal assistance to encourage private use of a variety of energy technologies. H.R. [2112 would provide Federal loan guarantees for commercialization of synthetic fiels. Factors to be considered in selection of energy technologies are: contributions to meeting the Nation's energy needs, costs, and selling price. The choice of financing mechanisms depends on the technology's state of development, its counciple feasibility, and groups whose actions would be influenced. Based on its analysis of energy options, OAO concluded that conservation should have too priority. Among technologies to increase energy supply, hydrothermal energy, municipal waste combustion, solar heating, and tertiary oil recovery were considered most cost offective. Large investments required to build synthetic fuel plants would direct Federal intentives primarily to large industries. GAO did not favor Government assistance for commercial development of synthetic fucis, but felt that emphasis should be placed on research. development, and demonstration. Congress should continue to place priority on energy conservation, encourage solar heating, maintain oversight of tertiary oil recovery, and consider action to encourage municipal waste combustion. It should also consider the advisability of legislation authorizing Federal loan guarantees to builders of synthetic fuel plants and consider directing the Energy Research and Development Administration to expand research, development, and small plants, (HTW)

153

Management Inprovements Needed in the Federal Pawer Commission's Processing of Electric-Rate-Internate Cases. EMD-76-9; B-180228. September 7, 1976. 22 pp. + 3 appendices (7 pp.).

Report to Rep. John J. Monkley; by Robert F. Keller, Acting Comptrollor General.

Organization Concerned: Boston Edison Co.; Federal Fewer Commission; Mastechusetts: Dept. of Public Utilities.

Congrassional Relevances Rep. John J. Moskley-

Authority: Federal Fower Act, as amonded (16 U.S.C. 792-825r). P.P.C. Order 513, F.P.C. Order 157.

Since 1070 the basics Billion Company her field with the Fredend Power Commission (FPC) for which the cluricity and sources areas, distributed as Basis 5-1 through here 5-4. TPC is indicating to hereing and thin allow the transmission of the transmission of the transmission period, the traffic and the transmission commutation. Bioinforger-density and part is requested rate into effect. Bioinforger-density and part is requested in the traffic and traffic and traffic and the traffic and traffic to participate as a multic of potential eventuary. Instantiation to participate the traffic and traffic and traffic and combustions are a realised of potential eventuary. Instantiation of the participate and the static and the static and the potential eventuary, as to that real and anothers. Instantiation and combusting the participate and the static and the potential eventuary and the static and the static and the potential eventuary and the static eventuary and the static and the static and the static eventuary and the static a Reconstructions: PPC district advice the applicable States points comparisons where eventsings are reflected to whether a continents; management of the state of the state of the state of the state contactor whether possible; and areas in a state of the state of the that assess management of the state of the state of the state of the distribution of the state of the state of the state of the distribution of the state of the state of the state of the Gling of the Scenario and the Office of Adainstentin Law Jolges management of the state state of the state state of the stat

154

Alternative Paels for Aviation (H.R. 12112), September 28, 1976. 11

Testimony before the Senate Committee on Aeronautical and Space Sciences: Ad Hee Aerospace Technology and National Needs Subcommittee; by Monte Canfield, Jr., Director, Energy and Mineral Dire.

Organization Concerned: Energy Research and Development Administration.

Congrassional Relavance: Senar Committee on Acronstical and Space Sciences: Ad Hoc Acrospace Technology and National Needs Subcommittee.

Authority: Synthetic Fuels Demonstration Plants Bill; H.R. 12112 (94th Cong.).

H.R. 12112 is primarily designed to promote the commercialization of synthetic gas; it also contains a provision for a small program. to increase liquid fuels through oil shale plants. Factors to be considered in choosing energy technologies are: contributions to moting the Nation's energy needs, costs, and selling prior. Based on its analysis of energy options, GAO concluded that conservation should have top priority. Among technologies to increase energy supply, hydrothermal energy, municipal waste combustion, solar heating, and tertiary oil recovery were considered more cost effective than synthetic fuels and thus to be given priority. Estimates of future needs for synthetic fuels very but BDRA estimated that the equivaient of 10 million barrels of oil from synthetic fuels will be needed in the year 2000. Synthetic faci production does not warrant Government financial support at this time, but Government research, development, and demonstration in this field should be continued Congress should continue to place priority on energy conservation. encourage solar heating, maintain oversight of tortiary oil recovery, and consider action to soccurace municital waste combustion. It should also consider the advisebility of legislation authorizing Federal lean guarantees to builders of synthetic fael plants, and consider Instead directing the Energy Research and Development Adminiatration to expand research, development, and small plants. (HTW)

155

Impowements Needed in the Federal Enhanced Oil and Gas Recovery Research, Development, and Demonstration Program. BMD-77-3; B-178205. January 28, 1977. 26 pp. + appendices (27 pp.), Research to Congress. by Binner B. Statis, Comptroller General.

Organization Concerned: Energy Research and Development Administration; Federal Energy Administration.

Congressional Relevance: House Committee on Science and Technology; Sensie Committee on Interior and Insular Affaire; Congress. Authority: Foderal Nonnuclear Energy Research and Development Act of 1974 (P.L. 93-577).

improvements are needed in the Federal enhanced oil and gas recovery research, development, and domenstration reparam. Findings/Conclusions: Advanced methods to recover currently ponrecoverable oil and gas could contribute to reducing United States dependence on imported energy resources. Commercialization of many of these techniques will require more technology development. Other obstacles, primarily economic, also stand in the way of commercialization. The Energy Research and Development Administration has a risk-sharing cooperative demonstration program to stimulate industry commercialization of advanced recovery technologies. However, the program has not been based on adequate planning and has been moving along at a slow pace. Although the agency is attempting to improve the program, it is unlikely to have a major effect on increasing domestic oil and gas supplies before the late 1980s or early 1990s. Recommendations: The Administrator of the Energy Research and Development Administration should give continued and increased emphasis to developing and putting into operation a management plan for enhanced gas recovery. The plan should focus on developing a balanced research program to include laboratory research, demonstration tests, and the cathering of geological data on the types of denosits the agency plans to test. Administrator should also reassess annually the Federal role and level of effort in enhanced oil and gas recovery research and development in the light of increased oil and gas prices and industry's willingness to promote new technology, (Author/SC)

HOW CAN THE EXECUTIVE BRANCH ORGANIZATION AND PROCESSES FOR DEALING WITH ENERGY PROBLEMS BE IMPROVED?

156

California's Central Volay Project-Proposed Power Rate Increase. B-125042. November 19, 1973. 34 pp. + appendix (3 pp.). Report to Rep. Henry S. Reuss, Chairman, House Committee on Government Operations: Conservation, Energy and Naturik Resources Subcommittee; by Einer B. Staase, Comptteller General

Organization Concamad: Department of the Interior; Bureau of Reelamation.

Congressional Relevance: House Committee on Government Operations: Conservation, Energy and Natural Resources Subcommittee. Authority: H. Rept. 89-1409.

The Department of the Interior proposed a substantial (51.6%) increase in the power rate to be charged customers of the Bureau of Reclamation's Central Valley Project (CVP) in California, Project costs allocated to nower, and part of the posts allocated to irritation. are required to be recovered in rates charged power customers and to be repaid to the U.S. Treasury. To determine whether power rates are adequate to recover the Federal investment within the required repayment period, CVP periodically makes and publishes rate and repayment studies. Findings/Conclusions: The rate and repayment atudies upon which the proposal raise is based have anherent weaknesses which cause them to give speculative results. These weaknesses result from uncertainties from projecting revenues, costs, and changes in operating methods for extended periods. Several contentions made by the opponents of the proposed rate increase involved suggestions which would require agreement with a contractor, and GAO cannot predict what the terms of the agreement would be. Four of the contentions had merit: three involved separate rate and repayment study procedures which the Bureau of Reclamation could change unilaterally and one involved using updated hydrology studies. Two CVP procedures were not consistent with established critcris: planning to avoid a deficit in any year of the repayment period and planning for an operational surplus at the end of the repayment period. If these two procedures were to be changed, the power rate would have to be increased only 36%. The neoposed rate probably could be further reduced if water availability data from undated

157

Energy Data Collection in the Federal Government January 17, 1974, 6 pp.

Testanosy before the House Committee on Small Business: Activities of Regulatory Agencies Subcommittee; by Phillip S. Hughes, Assistant Comptroller General.

Organization Concerned: Atomic Energy Commission; Bureau of Mines; Department of the Interior; Department of Commerce; Geological Survey; Federal Energy Administration; Federal Power Commission.

Congressionel Raisvance: House Committee on Small Basiness: Activilities of Regulatory Agencies Subcommittee.

Awthority: Economic Stabilization Act of 1970, as amended. Emergency Petroleum Allocation Act of 1973. Defense Preduction Act of 1950, H.R. 11793 (94th Cong.). H.R. 11503 (94th Cong.). S. 2776 (94th Cong.). S. 2782 (94th Cong.).

There is substantial concern in and out of the Government about the data on which energy decisions are based and about the system under which such data are collected. Seventeen Federal agencies, comprising 48 bureaus, offices, divisions, and administrations which were collectors or users of energy data were identified and visited As of March 1973, 15 major Federal agencies were circulating 145 questionnaires and forms to private industries and States requesting energy-related data. There is an acute need for improvements in both organization and process to assure systematic collection and analysis of energy data. There is also a need for specific statutory authority. for energy data collection and specific statutory support for systernatic data verification. Varification provisions in the legislation should provide for access to records and other documentation which ervate firms have an support of data reported to the Government. GAO should be aven access to the same records and documentation to which any saency given responsibility for energy data collection is provided access (Author/OM)

158

A Bill to Establish a National Energy Information System. February 6, 1974. 16 pp

Testinopy before the Senate Committee on Interior and Insular Affairs; by Phillip S. Hughes, Assistant Comptroller General.

Organization Concerned: Atomic Energy Commission; Bureau of Mines, Department of the Interior; Department of Commerce; Geological Survey; Poderal Energy Administration; Pederal Power Commission.

Congressionel Relavanca: Senate Committee on Interior and Insular Affairs.

Authority: Energy Policy Act of 1973. S. 2776 (94th Cong.), H.R. 11793 (94th Cong.). S. 2782 (94th Cong.). S. 2176 (94th Cong.).

Lezistation is required to establish a comprehensive energy data system. Such fegislation should: (1) require reporting of needed enerev-related information; (2) provide for certification of the accuracy of reported data and establish sanctions for nonreporting or incorrect reporting; (3) provide for access to records and other supporting documentation by those collecting data so that programs of data verification can be established; (4) provide for standardization of terms and definitions to insure reporting on a consistent basis; (5) assure that needed data are available to Government agencies; (6) provide for prompt and complete public disclosure, limiting "confidential" data to the minimum; and (7) provide assurance of independent reviews of energy data collection by giving OAO access to all reported data and to the records and supporting documentation of those reporting data. The best long-term organizational approach to the solution of energy data problems is to establish a Department of Energy and Natural Resources which would have the score and stability to deal with complex and long-term issues. A single reference source or directory should be developed. A comprehensive

inventory of existing collection efforts, preiodically updated, should identify the data and its source, frequency, timeliness, and qualitatively describe its reliability. (Author/QM)

159

Actons Needed to Improve Federal Efforts in Collecting, Analyzing, and Reporting Energy Data. B-178205. Pebruary 6, 1974. 35 pp. + 3 assendices (J0 pp.)

Report to Son Henry M. Jackson, Chairman, Senate Committee on Interior and Insular Affairs, by Phillip S. Hughes, Assistant Comptroller General.

Organization Concerned: Atomic Energy Commission; Department of the Interior; Pederal Energy Office; Pederal Power Commission; Interstate Commerce Commission.

Congressional Relayance: Senare Committee on Interior and Insular Affairs.

Authority: Energy Policy Act of 1973; S. 70 (93rd Cong.). S 2776 (93rd Cong.). S. 2782 (93rd Cong.). S. 2176 (93rd Cong.). H.R. 11793 (93rd Cong.). H R 11903 (93rd Cong.).

Maror improvements are essential in both the collection and the analysis of energy data. Findings/Canelurious: Many Federal accocars have been collecting a large volume of operay-related data which comprises a wide range of information which can be utilized in developing a comprehensive Federal energy information system. However, there are saps in the data being collected; time lags are not consistent with current national requirements; the data are unverified for the most part, and the individual data collection efforts need to be coordinated and integrated into a comprehensive system. Data collection should be based on a careful review of the needs of data users, siving priority to the data needs of Government users responsible for energy-related palicy decisions. General responsibility for developing the comprehensive system should be placed within the executive branch which has the opportunity to astablish a professignal, obstative oceanization to eather energy information. Recomassudationer Logislation required to establish a comprehensive energy data system should: require reporting of needed energyrelated information; provide for certification of the securacy of reported data, provide for access to records; assure that the needed data are available to Government agencies; provide for promot and complete public disclosure; and provide assurance of independent reviews of the energy data collection. (SC)

160

[Proposed Energy Inventory Act of 1974]. B-178205. April 12, 1974. 2 pp.

Letter to Rep Harley O. Staggers, Chairman, House Committee on Interstate and Foreign Commerce; by Robert F. Keller, Deputy Comptroller General.

Congrussianol Relavance: House Committee on Interstate and Foreign Commerce.

Authority: Energy Inventory Act of 1974; H.R. 12534 (93rd Cong.).

161

Pacific Northwest Ilydro-Thtemal Power Program-A Regional Approach to Maching Electric Power Requirements B-114858, June 5, 1974. 22 pp. + 4 appendices (16 pp.)

Appart to the Congress; by Robert F. Koller, Acting Comptroller General.

Organization Concerned: Bonneville Power Administration; Bureau of Reelsmation; Department of the Army; Corps of Engineers; Department of the Army; Department of the Interior. Congressioned Rolevence: Congress.

Autanthy: Public Works Appropriation Act of 1970 (P.L. 91-144). Bonneville Project Act (16 U.S.C. 832e). Government Corporation Control Act. P.L. 91-439. H.R. 14168 (93rd Cong.) S. 3362 (93rd Cong.). H. Rest 91-1219.

Energy Digest SEPTEMBER 1977

The Hydro-Tharmal Power Program was developed in 1969 to most the answine electrical needs of the Pacific Northwest through the integration of regional nower resources. Findings/Conclusions: As a result of delays in providing generating capacity under phase I of the program, nower shortages in increasing amounts have ancurred and are expected to continue to occur. The delays resulted from problems in obtaining funds for constructing the Federal hydrotlectric protects to be provided under the program plan; planning, designing, and constructing both Federal and non-Pederal Socilitiesobtaining public acceptance of a Federal hydroelectric project; and meeting State air poliution control requirements for a thermal plant. Actions have been taken by both the Federal Government and the utilities to reduce the impact of the program delays. Additional Pederal funds totaling about \$2 billion will be required for other hydroelettric registry and transmission facilities is order to complete phase. 1 of the program Pacific Northwest utilities and the Bonneville Power Administration (BPA) have agreed upon a plan for implementing the program through 1986 BPA has developed a logislative proposal to authorize it to sell revenue bends to the Secretary of the Treasury to finance its extenses. (OM)

162

Survey of Federal and Electric Unity Processments of Power Epulgment. B:174317. August 1, 1974. 23 pp. + appendixes (11 pp), Royor to Sea. Lee Metail, Chimisma, Senate Committees on Goressment Operations: Reports, Accounting and Management Subcommittees by Phillp S: Hughes, Austisant Comprehence General.

Organization Concerned: Atomic Energy Commission; Bennevillo Pervar Administration; Federal Power Commission; Rural Electrifieation Administration; Tennessee Valley Audiority.

Congressioned Relevance: Sease Committee on Government Operations: Reports, Accounting and Management Subcommittee.

Making meaningful comparisons of power equipment prices is a complex task involving many technical matters and subjective degisions. Costs of somewhat comparable power equipment sometimes varied greatly in Federal procurements, in electric utility procurements, and between Federal and electric utility procurements. Findines/Conclusion: Them was no pattern to indicate that electric utilities generally paid more or less than the Federal Government for comparable equipment A surpler of problems preoleded determination of the reasonableness and comparability of prices naid by the Foderal Government and the electric utilities for nuclear and nonnuclear power equipment. These problems isvolves the general lock of Foderal authority to experine suppliers' and manufacturers' records. relating to such sales; the many complex and technical equipment specifications involved; the lack of enteria on how to measure in dollars certain necessary comomic considerations; and the fact that nuclear equipment is purchased on a total system basis and costs are not available on an individual component basis. No determination concerning the managehieness of optimized casts to the Referal Government and the electric stillities can be made without extensive scores to the records of equipment suppliers and manufacturors. Few regulatory commissions have authority to review or audit records of equitment suppliers and manufacturers. Little attention is given to individual procurements of power equipment. Increasing foreign competition in procurements of power equipment and increasing standardization of equipment and plant siting and design hold promise for roducing costs, (OM)

163

[Access of the Federal Power Commission to Bareau of Reclamation Records to Innere Compliance with the Federal Power Act]. B-125042. August 22, [974, 4 pp.

Letter to Rep. Henry S. Resss, Chairman, House Committee on Government Operations: Conservation, Energy and Natural Resources Subcommittee; by Robert F. Keller, Acting Comptellor General. Orgonization Concerned: Bureau of Reclassistion; Federal Power Commission.

Congressional Relevants: Hour Committee on Government Operations: Conservation, Energy and Natural Resources Subcommittee. Authority: Federal Power Act § 303 (16 U S C. \$25). 79 Cong. Rec 10379.

164

[Staffing af Federal Energy Administration's Office of Communications and Public Affairs]. B-181254. February 28, 1975. 3 pp. + 5 appendices (14 pp.)

Report to Rep. John E Moss; by Phillip S. Hughes, Assistant Comptrollor General.

Organization Concerned: Federal Energy Administration. Coogressional Relevance: Rep John E. Moss. Authority: 5 U.S.C. 3107.

A number of Federal Energy Administration (FEA) employees. including those temporarily detailed from other agencies, deal with public relations and information and the modia. Findings/Conclusient: The PEA's Office of Communications and Public Affairs is uts only office for this task. It has a ceiling of 129 people, and as of February 1975 had 127 employees, including 12 nonpermanent emplaynes. The 65 employees of the Public Inquines and Correspondence Division respond to matines from the Government and the rublic, and processed about 2,000 responses a month as of January 1975, down from a monthly high as 1974 of 8,500. These employees worked considerable overtime in Anni and May 1974, but much of the overtune is being phased out. As of February 1975, 21 employees were classified as Public Information Officers The Office averaged 130 employees and did a commendable job during the energy crisis, broding thousands of written and telephoned requests, and worked considerable overtime. Purther study will involve the question of whether there is a violation of statutes which forbid the use of approprinted funds to pay such public relations employees. (DJM)

165

Alternative Energy Propulat. March 10, 1975. 6 pp Teathory before the House Commutee on Intertiste and Foreign Commerce: Energy and Power Subcommittee; by Phillip S. Hughes, Assistant Comptroller General

Congressional Relevance: House Committee on Interstate and Foreign Commerce Energy and Power Subcommittee.

The General Accounting Office has developed a mackage of enorgy proposals which are manually supportive and reasonably compreheasive. Items which would be worthwhile additions to any package of energy proposals include: legislation requiring that Pederal regulatory agencies give energy conservation the highest possible priority is all regulatory action; modification of the oil price control program to create sufficient incentives for all oil that can be recovered economically through secondary and tertiary recovery; and a legislative mandate requiring that the Pederal Government set an energy conservation example for the Nation in all of its activities which involve the direct consumption of energy. The energy proposal package developed by GAO includes a number of energy conservation measures directed at the transportation sector; proerant designed to improve energy conservation in the residential. industrial, and commercial sectors of the economy; a program of oil import quotes: Pederal exploratory drilling on the frontier Outer Continental Sholf areas; truth in energy provisions designed to increase consumer awareness concerning energy efficiency; and the establishment of a Department of Energy and Natural Resources.

166

Alternative Energy Proposals Developed by the General Accounting Office in Response to Congressional Inquiries: Proposals and Supporting Analyses. March 17, 1975. 13 pp. + 7 exclosures.

Terrimony before the House Committee on Ways and Monne; by Elmer B. Staats, Comptroller General.

Congressional Relevance: House Committee on Ways and Means-

The development of a number of alternative energy proposals for congressional consideration reflects the growing consensus that a disciplined and cohesive national energy policy is needed and that this policy will significantly change the patterns of energy supply and consumption prevalent in the 1960's and early 1970's. Findburs/ Cascianions: A package of energy proposals developed by GAO included: 1)a number of energy conservation measures in the field of transportation; 2)a number of programs designed to improve energy conservation in the residential, industrial, and commercial soctors of the economy; 3)a program of import quotas designed to reduce the importation of oil; 4) a series of governmental activities designed to increase energy supplies and to provide reserves of petroloum to guard against future disruption of imports; and 5)the establishment of a Department of Energy and Natural Resources. Key differences among the various alternative energy proposals before Congress include the manner of implementing and the timing of any import reduction; the extent to which oil and natural gas proces abould be controlled; the amount and method of physing in any new retail tax on gasoline; and the desirability of voluntary as opposed to mandatory actions to improve the fuel efficiency of automobiles. (SC)

67

Information on Selected Aspects of the Power Operations of Tennessie Valley Authority: RED-75-368, B-114850. April 29, 1975. 10 pp. + appandix (45 pp.).

Report to Sen Bill Brock; by Elmer B. Stasts, Comptroller General.

Organization Contamad: Tennestee Valley Authority.

Congrassionel Relavence: Sca. Bill Brock.

Authority: Tennessee Valley Authority Act of 1933 (16 U.S.C. \$31 et seq.), OMB Circular A-76.

The Tennessee Valley Authority (TVA) has several resource development programs, of which its power program is the largest, accounting for about \$7% of TVA's total assots in 1974. Findings. Conclusions: With a few minor exceptions, the Authority's power rates are lower than the rates of its neighboring utilities and the average rate of utilities throughout the United States. TVA believes that it has achieved many of the advantages associated with peakload pricing. TVA plans to meet increased demand for electricity primarily with nuclear generated power. Seventeen nuclear units are planted for operation by 1984. The Authority owns six coal reserves which it estimates contain 382 million tens of recoverable coal. Ownership of these coal reserves contributes to lower proces for coal delivered to its steam plants. TVA negotiates with the Tennessee Valley Trades and Labor Council to catabilish the prevailing wage rate in the area for its trades and labor employees. The Authority constructs its power plants primarily with its own work force rather than by contract, and believes that this is a more economical and efficient meens of attaining its program objectives. The Authority has established 10 residential power resale rate levels, any care of which it may authorize for use by each of its 160 distributors in billing consumers. (SC)

168

Which Alternative for Evergy Policy? April 30, 1975. 12 pp. Speech before National Economists Club, Washington, D.C.; by Moste E. Canfleld, Jr., Director, Office of Special Programs.

Even with the implementation of strong energy conservation measures and increased efforts to develop new domestic energy supplus, the United States could be forced to increase its relinance on off imports in the years ahead. Oil imports should be reduced from the level that they would have been if no action were taken, first to achieve a 2 million barrel per day reduction in routhly 30 months. and from there, to further suports commensurate with our ability to conserve and increase domestic energy production. Comparative analysis is needed in the transportation sector because the claimed savings for various alternative energy proposals are being computed under different assumptions and using different data bases. It is estimated that implementation of GAO's package of energy proposals would result in a real Gross National Product of about \$822 hillion in calendar year 1976 as compared to about \$802 billion if the Admunistration's proposals were adopted. Basic economic indicators would change little as a result of this implementation. Expenditures would act as a stimulus in the current communic situation and would diminish over tune as the economy is likely to expand Three alternotive energy proposals not in GAO's proposals should be considered: statutory requirement that regulatory agencies give highest priority to energy conservation: modification of the oil price control program to create production incontives; and a legislative mandate that the Federal Government set an energy conservation example. (Author/QM)

169

Energy, the Economy and the Budget. May 16, 1975. 14 pp. Speech before Federal Government Accountants Association, Philadolphia Chapter, Eighteenth Annual Symposium; by Monte Canfield, Jr., Darector, Office of Special Programs.

Even with the implementation of strong energy conservation measures and increased efforts to develop new domestic energy supplica, the United States could be forced to increase its reliance on oil imports in the years ahead. A reasonable goal for import restrictions, taking into neconst increasing demand and decreasing domestic supply, is the reduction of imports from the level that they otherwise would be if no sotion were taken on energy. Comparative analysis is needed in the transportation sector because the claimed services for the various alternative energy proposals are being computed under different assumptions and using different data bases. Basic contomic indicators would change little as a result of the implementation of GAO's onergy program from what they would have been if no action were taken. Expenditures would act as a stimulus in the current economic situation and would diminish over time as the economy expands. The following proposals should be considered: a statutory requirement that Federal regulatory agencies give energy conservation the highest possible priority; modification of the oil price control program to prests sufficient incentivos for producing all oli that can be recovered economically through secondary and tertiary recovery; and a legislative mendate requiring the Federal Government to set on energy conservation example. (Author/QM)

170

[Comments on the Energy Information Acr], B-178205.90, July 28, 1975. 6 pp. + attachments (4 pp.).

Letter to Rep. Harley O. Suggers, Chairman, House Committee on Interstate and Poreign Commerce; by Robert F. Keller, Deputy Comptroller General.

Orgonization Consumed: Department of the Interior; Federal Energy Administration; Federal Power Commission, Federal Trade Commission; Geological Survey.

Congressional Relavances: House Committee on Interstate and Foreign Committee.

Avihority: Energy Information Act; H.R. 2385 (94th Cong.). Fedoral Energy Administration Act of 1974 (P.L. 93-275; 15 U.S.C. 761), S, 70 (92rd Cong.), S. 2176 (93rd Cong.), S. 2776 (93rd Cong.).

171

America's Energy Futures. August 4, 1975. 17 pp.

Speech before 1975 Engineering Foundation Conference, Henniker, New Hampshire, by Monte Casfield, Jr., Director, Office of Special Programs.

The Ford Foundation's Energy Policy Project, as part of a study of the asp between clomestic energy production and domestic copray consumption, developed three alternative energy futures through the wear 2000 Historical Growth Technical Fix and Zero Growth (ZEG) Policies which would be necessary to sustain high energy growth (the situation under the Historical Growth scenario) are: governmental efforts to promote high demand; subsidizing the encrev industry to keep prices low: Federal resources available for widespread development: encouragement of ranid Gross National Product growth; capital available to finance new energy systems; and a major supply-oriented research and development program. The more flexible Technical Pixes might be applied to a few key areasspace heating; more use of waste host from powerplants; improved puto fuel oconomy; use of salar energy for space conditioning and water heating where comminal; and increased recycling of metals and energy intensive products and use of energy from municipal wastes. The Nation should consider moving toward ZEG because: Technical Fix only buys time; the expective of the parth is finite. rescorces will be needed in the future: our societies will have serious problems in a resource-short world; and citizens may want a different. kind of America (QM)

172

Refiable Contract Soles Data Needed for Projecting Amounts of Notarral Gas That Could Be Deregulated. RED-76-11; B-178205. September 8, 1975. 19 pp. + 3 appendices (10 pp.).

Report to Sen. Henry M. Jackson; Rep. John E. Moss; by Elmor B. Staats, Comptrollor General.

Organization Concernad: Foderal Power Commission.

Authority: Natural Gas Act of 1938 (15 U.S.C. 717). P.P.C. v. Texaco, 377 U.S. 33 (1964). Phillips Petroleum Company v. Wisconsin (U.S., 1954). 18 C.F.R. 154.93.

Commuted volumes of gas that will be released from expiring contracts from 1975 to 1985, and which therefore will notentially be available at deregulated prices, range from shout 29 trillion cubic feet (TCF) to 7.7 TCF, depending on assumptions concerning the rate of gas flow over the periods in which it is economically recoverable. Findings/Conclusions: Many sales constructs between producers and interstate pipeline companies contain indefinite pricing clauses which may affect the amount of cas reloased from price controls of demoulation occurs. The reliability of the 1972 and contract sales data used to study the decendation effects was cuestionable because the Federal Power Commission (FPC) performed only limited verification to determine that the data were complete and accurate. Recommendations: The Chairman of the FPC should institute procedures aimed at keeping FPC apprised of the status of gas flowing under contracts subject to its jurisdiction. FPC should, to the extent possible, use data regularly supplied, such as gas sales volumes data, and data received nursuant to the August 1973 FPC order which required producers to provide sales date under their contracts with interstate pipelines and other contract data. If available data are inademate. FPC should consider represting the additional data needed to form a base which could then be periodically undated. FPC should institute procedures to independently verify, at least on a sample basis, that the data received are complete, accurate, and reliable. (Author/SC)

173

[Amendment of the Poderal Energy Administration Act of 1974 and the Extension of its Expiration Date]. B-181254. September 30, 1975. 2 pp. Orgonization Concernad: Federal Energy Administration. Authority: Pedecal Energy Administration Act of 1974 (P.L. 93-275).

174

Southeastern Federal Power Program-Fanoncial Management and Program Operations. RED-76-47; B-125032. January 2, 1976. 54 pp. + Attachments (24 pp.).

Report to the Congress, by Elmer B. Staats, Comptroller General

Organization Concerned: Federal Power Commission; Department of the Interior; Southeastern Power Administration; Department of the Army: Corps of Engineers; Department of the Army: Army Audit Agency.

Congressional Relevance: Congress.

Autholity: Federal Power Act, § 10(f) (16 U.S.C. 803(f)). Anti-Deficiency Act (31 U.S.C. 665). Flood Control Act of 1944 (16 U.S.C. 8259).

The Southeastern Federal Rower Prearum (SERR) and assets of about \$862 million at June 30, 1974, and power revenues of about \$41 million for fiscal year 1974. Net power revenues have increased in recent years. Findings/Conclusions: The following problems in operating projects may have an adverse effect on future financial results important rehabilitation requirements; delays and cost increases in constructing projects; delays in determining and collecting headwater benefity delays in firming up our allocations of total project cests: adverse environmental effects: and bayacious operating conditions. Before marketing arrangements can be completed for four new SFPP projects, several problems must be resolved. The Army Corps of Engineers (Corps) and the Southeastern Power Administration (SEPA) have taken actions to increase nowir repetation from existing projects. The Corps and the Faderal Energy Administration (FEA) have identified 14 hydroelectric projects which might be expanded or constructed. SEPA had renaid \$155 million of the estimated \$687 million Federal power investment through fiscal year 1974. The Corps Savaenah District violated the Anti-Deficiency Act. because it incurred obligations in excess of appropriation allotments. The Army Audit Agency has not made financial audits of the Corns accounting offices involved in SFPP since 1966. Recommendanow. The Department of the Interior should usue uniferm methods and guidelines for preparing rate and repayment studies used for determining the revenue levels needed in formulating wholesale power rates. The Army should report the violation of the Corps Savannah District and the actions taken to the President and the Congress. The Army Audit Agency should schedule periodic audits of the Corps accounting offices. (Author/OM)

175

Fature Energy Densmit, February 17, 1976. 11 pp. Speech before New York Society of Security Analysis; by Monte Canfield, Jr., Director, Office of Special Programs.

Organization Concerned: Department of the Interior; Pederal Baergy Administration, Federal Power Commission. Authority: Energy Policy and Concernation Act.

The Energy Policy Project projected stress internation energy futures through days and 2000 Historical Correls, Iostalo Higgs, and Zero Growk (22G). With the Historical Growth security, text and the second stress of the Stress and Stress and Stress Iostal Stress and Stress and Stress and Stress and Stress Iostal Stress and Stress and Stress and Stress and Stress United States comparison on core efficient see of energy. The ZEO creates would be anything to the Stress and Stress and Stress and Energy texases and the Stress and Stress and Stress and Iostal strengt researching would mobilize at Mont. 3 these are thus, Total strengt researching would mobilize at Mont. 3 these and that any texases and the Stress and Stre Industrial parks, and encouragement of movement towards a lervice concerny. The Nation should move toward Technical Nife or ZEG. Even with deregulation of the price of satural gas, natural gas predection is likely to consists less dediles. Deregulation could, however, show and pensibly arrest the rate of decline. Without 1, production words decline even more steply. The Energy Phylory and spectral words decline even more steply. The Energy Phylory and the stepping of the steply of the books and records of energy companies. (Author! OM)

176

The Energy Information Act, S. 1864. March 9, 1976. 13 pp. + 5 enclosures.

Tastiway before the Senate Committee on Interior and Insular Affairs; by Phillip S. Hughes, Assistant Comptroller General.

Organization Construction Atomic Energy Commission: Department of Consumerce: Department of the Interior: Energy Research and Development Administration; Pederal Energy Administration; Federal Fower Contanission; Tederal Trade Commission; Nuclear Regulatory Commission; Office of Massagement and Bodgett.

Congressionel Relevance: Senare Committee on Interior and Insular Affairs.

Authenity: Energy Information Act; S. 1864 (94th Cong.). Trans-Asskein Pipeline Act, § 409 (P.L. 93-153), Federal Energy Administration Act of 1974 (P.L. 93-275). Energy Policy and Conservation Act (P.L. 94-183).

Eighteen energy-related bills have been enacted into law since 1974. In general, the legislation gave the Federal Energy Administration (FEA) sugnificant data collection responsibilities and established it as a focal point for Federal energy data. The best long-term organizational approach to the solution of energy problems including energy data collection problems would be the establishment of a Department of Energy and Natural Resources. Alternatives for intproving data collection which should be considered are: building on the capability already existing in FEA by expanding that agency's energy data role and assuring the independence and objectivity of its data collection activities; or creating a separate agency for energy information either within the executive branch or in the form envi sioned by the Energy Information Act. The new bill would transfer responsibility for energy forms cleanance to the new agency. A better alternative to this would be to transfer all forms cleanance responsibility presently yested in GAO and the Office of Management and Budget with the added requirement that requests for energy data he coordinated through the Admaistration or PEA. Section 301 of the bill should be revised to require a one-time study by the Department of the Interior of energy resources on Federal lands and annual updating of information concerning recoverable reserves. (Authee/QM)

17.

of Special Programs.

GAO's Evergy Rols. March 16, 1976. 15 pp. Speech before Society of Petroleum Engineers of the American Institute of Mining Engineers: by Monte Canfield, Jr., Director, Office

Orgonization Concernade Foderal Energy Administration; Department of the Interior, Federal Power Commission.

Authority: Energy Administration Act, § 12 (15 U.S.C. 771).

Some of CAO's prejects for electrifying and invariantly an energy problems include: () a review of the Potent Ronger Administraion's (PGA's) efforts to determine the electric of the elect Nation's seconstry. Costs to constance under costinued regulation would exatiative to increase bearson of prior does while his er quicktance ja several gravitation and the second to incare they attend as a several gravitation and the second second second interaction and the second second second second second and construction of a second second second second second records of private persons and comparison. The Emergy Priory and Construction on A second secon

173

Review of the 1974 Project Independence Evaluation System. OPA-76-20; B-178205. April 21, 1976. 49 pp. + appendices (9 pp.). Rever to the Congress; by Elmer B. Stasta, Comptroller Guneral.

Organization Concerned: Federal Energy Administration. Congressional Relevance: Congress.

The 1974 Project Independence Evaluation System was a set of crelated models developed to represent the U.S. energy system. This major effort involved many Government employees and energy experts outside the Government under the overall direction of the Federal Energy Administration (FEA) Findings/Conclusions: The 1974 Project Independence Evaluation System was a valuable atternet to provide an integrated framework for evaluating energy policy, FEA developed an innovative framework for analyzing the ecentles and interdependent sectors of the U.S. energy system. Nevercholess, it receives corrective action in order to approach its full usefulness and to assure that the results from subsequent versions will be reliable. Recommendations: FEA should add to its plan: an analvsis of problems resulting from the static nature of the system and the procedures which can be used to alleviate them; an analysis of the limitations in the environmental impact analysis and the procedues which can be applied to correct them; and a comprehensive, well-documented verification, validation, and sensitivity testing effort. In implementing the plan, priority should be given to the following areas: the methodological approach used to estimate energy sonoly, in particular crude oil and natural gas: the energy demand estimation technique regarding calculating energy price elasticities; the representation of the relationship between the energy system and the cocnomy; and a more thorough assessment of the economic, environmental, and international impacts of alternative U.S. energy policies, (Author/OM)

179

A Bill to Extend the Federal Energy Administration Act of 1974. April 26, 1976. 18 pp. + attachments (17 pp.).

Tentensey before the Senate Committee on Government Operations; by Elmer B, Staats, Comptroller General.

Orgonization Generament: Federal Energy Administration; Energy Research and Development Administration; Federal Power Commission; Energy Resources Council.

Congressional Relavance: Setate Committee on Government Oper-

Authority: Federal Energy Administration Act of 1974; S. 2872 (94th Cong.), Energy Policy and Conservation Act.

The best long-term capatizational approach to the solutions or orang problems is southink a Department of Ronzy and Marcal and Ronzy and Ronzy and Ronzy and Ronzy and Ronzy Ronzy Andreas and Ronzy and Ronzy and Ronzy Ronzy and Ronzy and Ronzy and Ronzy and Ronzy Rosenth and Development Administration's policy requestibilities should be combined into a new Nadowal Ronzy Administration formation and Ronzy and Ronzy Administration Rosenth and Development Administration's policy requestibilities should be combined into a new Nadowal Ronzy Administration (Ronzy) and Ronzy and Ronzy and Ronzy Administration (Ronzy) and Ronzy and Ronzy and Ronzy Administration (Ronzy) and Ronzy and Ronzy and Ronzy and Ronzy Administration (Ronzy) and Ronzy and Ronzy and Ronzy and Ronzy and Ronzy (Ronzy Ronzy and Ronzy and Ronzy and Ronzy Administration).

Energy Digest SEPTEMBER 1977

energy data solitoten effects by FEA for the noted part have been pile on top of old entry and effects the improved econdition have yet to show much access. A situatory negatiment should be timoragy conserving activities, and Februari piles and access in the conservation area for the spacening year. FEA should to conservation area for the spacening year. FEA should to be a situation of the space of the situation of the conservation area for the spacening in a given and the transfer in the constraints of the space of the situation to a situation of the situation of the situation of the transfer in the situation of the situation of the situation to a situation of the situation of the situation of the situation as well as bits and solid energy personated. (2004)

180

Review of the Information-Gathering Practices of the Federal Europy Administration. OSP-76-18; E-181254. May 11, 1976. 19 pp. + 3 abtendiates (9 pp.).

Report to Frank G. Zarb, Administrator, Federal Energy Administration; by Monte Canfleid, Jr., Director, Office of Special Programa.

Authority: Trans-Alaska Authorization Act, § 409 (P.L. 93-153).

Because of the large number of new information-sathering requirements generated since its establishment, the Federal Energy Administration (FEA) was selected as one of the initial accords to be studied in a long-tarm program for the evaluation of the management processes used in developing information-gathering requirements. Hindings/Conclusions: FEA had not applied the degree of effort warranted in assessing the need and definition of data requirements. Many of FEA's collection efforts do not completely falfill the stated need. FEA generally does not contact potential respondents during the early stages of the development cycle. Several requirements duplicate information collected by other organizations. In assessing burden, little attention is given to the impact of the proposal upon the perpondents. While FEA has protested several requirements before submitting them to GAO for clearance and subsequent full-scale implementation, it has not adopted field testing on a fullscale basis. FBA does not perform any periodic assessments; however, three ad hos reviews have demonstrated the need for such an effort. There is an apparent lack of adequate authority in FEA's clearance review function. Recommendations: FEA should: more actively contact the various involved congressional organizations during the development process to insure development of requirements which will fulfill their needs; increase its efforts to contact other organizations and agencies during the development process; issue procedures requiring field testing of proposals when warranted; Institute a continuous program of evaluating the information-gathering process and data usage; review and revise the procedures and placement of the clearance organization; and take stops to insure that the regional offices obtain official approval before solleiting information from 10 or more parties. Action should be taken to change the following basic beliefs: the need for information overrides the burden of the respondents in providing that information; it is better to obtain information directly from respondents than use information from existing reports; and it takes too long for Federal agencies to work and design information-gathering efforts of mutual interest. (Au-

181

[Faderal Energy Administration Personnel Turnover Rates]. CSP-76-23; E-178205. May 24, 1976. 1 pp. + 3 enclosures (3 pp.). Report to Son. Patrick J. Leahy; by Monte Canfleld, Jr., Director, Office of Secial Program.

Organization Conterned: Federal Energy Administration. Congressional Relevance: Ser. Patrick J. Loshy.

Personanti payvali records for colendar yter 1975 were extended and officials were interviewed at Federal Baregy Administration (FEA) headquartens lo Washington, D.C. Phadlegy/Ontralsofer Personel summer rates for calendar year 1973 at FEA headquarters and in its 10 regional officios were 30,4% and 37,6% respectively. The overall agency tumorer rate wa 38,6%, All personnel, including 145 consultants, expert, summer alcas, nut atoeta tassistent, semiaints ing FEA employment during 1975 were ocunted as separations. (Anthor/QM)

183

Improvements Still Needed in Federal Energy Data Collection, Analysis, and Reporting. OSP-76-21; B-175205. June 15, 1976. 13 pp. + 5 attachments (32 pp.).

Report to the Congress; by Elmer B. Staats, Comptroller General.

Organization Consumade Federal Energy Administration; Federal Power Commission; Department of Commerce; Bureau of Mines; Geological Survey; Department of the Interior; Atomic Energy Commission.

Congressional Raisvonces Senate Committee on Interior and Insular Affairs; Congress.

Autherity: Energy Information Act; S. 1846 (94th Cong.). Trans-Ainstan Pipeline Act (P.L. 93-153). Federal Energy Administration Act of 1974 (P.L. 93-275). Bronzy Poley and Concervation. Act (P.L. 94-163). Energy Supply and Environmental Coordination Act. P.L. 93-319, 13 U.S.C. 9, 31 U.S.C. 445, 44 U.S.C. 3512.

An estiliar GAO report concluded that legislation would be required to establish a comprehensive energy data system and that development of that system should be placed where it would not be influenced by energy policy analysis and formulation Findlags/ Conclusions: Many basic problems have not been resolved, yet the volume of energy and energy-related data has grown tremondously Except for certain congressionally mandated Federal Energy Administration efforts, Federal agencies generally continue to design information requests to fit their individual needs, and efforts for improved coordination have shown limited success. Recommendadats: The best long-term organizational approach to the solution of energy problems, including energy data collection problems, would he the establishment of a Department of Energy and Natural Resources. A separate bureau of energy data collection could be insulated within that department, perhaps by enacting explicit statutory provisions insuring independence and objectivity. In the interim, an organizational alternative which should be considered is to build on the cutability already existing in the Federal Energy Administration by expanding that agency's energy data role and insuring the independence and objectivity of its data collection activities. The agency already has a legislative mandate to act as a focal point for energy data collection and, as such, would be a logical choice to assume greater control over Federal energy data activities Another alternative that deserves attention would be the establishment of a separate new agency for energy information, such as that envisioned in the Energy Information Act. (Author/QM)

183

[Review of the Federal Energy Administration's Advisory Committeer]-EMD-76-5; B-178205. August 2, 1976. 11 pp.

Report to Frank G. Zarb, Administrator, Federal Energy Administration; by Monte Canfield, Jr., Director, Energy and Minerals Drv

Authority: Pederal Energy Administration Act of 1974 (P.L. 93-275). Federal Advisory Committee Act of 1972 (P.L. 92-463). Energy Policy and Contervation Act (P.L. 94-163).

Because many energy declaims of the Federal Kengy Adminition (FRA) affect counces, new-ionsematicals, landary, has a series of the series of the series of the series of the transmittant for the FRA receives and counties for hard the form gover here may administer of series of the series of the form gover here may administer of series of the series form gover here may administer of series of the series of the form gover here may administer of the series of the form gover here may administer of the series of the series. In *Bellegy* conductions for the form the series of the series o bidene dhoc committees to be conference on any marginally affertive. Matters a constative studenty is carefully diselved by FRA, to be recommendations, lassing a report, or anexty providing inconcisions diselver the student of the student of the student of the student recommendations, lassing a report, or anexty providing inconcisions diselver the student of the student of the student of the student student of the student o

184

Status of the Grand Coulse-Rever Transmission Line Project. PSAD-76-167; B-114858. August 18, 1976. 16 pp. + appendices (4 pp.). Report to the Congress; by Elmer B Statts, Comptroller General.

Organization Concerned: Department of the laterior; Bonneville Power Administration.

Congressionel Relavante: Congress.

The Grand Coulee-Raver electrical transmission line was the first high-capacity 500-kilovolt double-circuit line constructed by the Bonneville Power Administration. The project was undertaken to serve growing needs for power and assure reliable service in the Paget Sound area of the State of Washington Findings/Coaclasions: A \$48.6 million cost growth in the project was caused primarily by changes in the scope of the work, escalation in the price of material, and increased construction contract costs. The most recent cost esemate evoluded \$1.2 million for materials and equipment available from projects and \$11.7 million for related equipment provided by the Bureau of Reclamation. If the construction of other planned power generation facilities in the area is delayed or eliminated, additional capacity across the Cascade Mountains will be required somer The cost to upgrade the capability of the Grand Coulee-Raver line from 2,800 to 5,000 magawatts is estimated at \$14.8 million After the Bonneville Power Administration had redesigned portions of the towers, it was found that they had not been tested at the ultimate design load Recommendations: The Bonneville Power Administration's cost estimates provided to the Congress in the future should identify all related project costs. Future transmission tower test programs should provide for testing redesigned items to assure that the ultimate design load can be obtained. (Apthor/QM)

185

[The Federal Income Taxes of Class A and B Electric Utilities]. EMD-76-7; B-180228 August 27, 1976. 3 pp.

Report to Sen Lee Meteall, Chairman, Seaste Committee on Government Operations: Reports, Accounting and Management Subcommittee; by Robert F. Keller, Acting Comptroller General,

Organization Concarnad: Federal Power Commission; Internal Revenue Service.

Congrassional Ralavance: Senary Committee on Government Operations: Reports, Accounting and Management Subcommittee. Authority: S. 2213 (54th Cong.).

According to the Internal Revenue Service (IRR), determ atility comprains are generally tated the other comprehators, and the vering companies may also be noted by the service of the service utility companies may lab to ended to the income and the service afflux companies. Radings/Convolution of the lateration afflux companies. Radings/Convolution of the lateration afflux companies. Radings/Convolution of the lateration and the service of the lateration of the brane they income test data were integrated with tas data to response to a start data. 1972; artifiem (in 1972; 3798 million in 1973; and an alteration of the lateration brane the lateration of and 5378 million in 1974 in early about one-third of the individual cases do the figures reported to FPC and to 18.50 work the J-year period come within 10% of each other. Some differences were eased by the differences in FPC and 18.75 repecting regreterators. There may be significant differences in the tax data as amplied by FPC co-RS and the ast similarly used to purply the rate occurrement may revances at as settation cause the settant laxes and the tax lability used for rate justificant to vary (AnderWer(20)).

186

The Changing Role of the General Accounting Office in Energy Information and Data Programs. September 8, 1976. 19 pp. Speech before Twelfth Annual Institute on Oil and Gas Accounting, Southwestern Legal Foundation, Dallas, TX; by Monte Canfield, Jr., Directore, Energy and Migneriak Div.

Organization Concernach Federal Energy Administration; Energy Research and Development Administration; Federal Power Commission.

Authority: Pederal Energy Administration Act of 1974. Energy Conservation and Production Act of 1976. Energy Policy and Conservation Act of 1975.

GAO's first major study of energy data programs (April 1973) addressed the magnitude of the Federal energy data effort, identified and discussed several problem areas regarding the Pederal Government's capability for collecting and analyzing energy data, and discussed executive and legislative proposals to improve energy data collection and analysis. The best long-term organizational anoroach to the solution of energy problems, including energy data collection problems, would be the establishment of a Department of Energy and Natural Resources. The Energy Conservation and Production Act. places several specific requirements on GAO, including that GAO review and evaluate the effoctiveness of energy conservation and renewable resource programs and provide an annual report to the Congress on Federal Energy Administration activities. The Energy Policy and Conservation Act authorized GAO to independently verify energy data and, to that end, inspect the books and records of private persons and companies under certain conditions. GAD has about 90 energy studies underway or planned. Of these, 27 were initiated as a result of congressional requests and the remainder were undertaken on GAD's own Initiative. (QM)

187

The Costal Zone Management Program: An Uncertain Fature. GGD-76-107; B-145099. December 10, 1976. 115 pp.

Report to the Congress; by Elmer B. Staats, Comptroller General.

Orgonization Concerned: Department of Commercer, National Departic and Atmospheric Administration.

Congressional Relavances House Committee on Merchant Marine and Fisheries; Steare Committee on Commercer, Sense Committee on Appropriations: State, Justice, Commerce, The Judiciary Subcommittee; Congress.

Authority: Coastal Zone Management Act of 1972, (P.L. 92-583).

An assessments was made of programs under the Costal Zon-Management Act of 1270 by the Netholical Costal end Astronghout, Acta paroleta for locality of the Netholica Costal end Astronghout, Acta paroleta for locality and the Netholica gains administered days Allocate the two effects and astronome. Refleging Control days and the Netholica Costal and the Netholica gains administered days and the Netholica Costal and the Netholica gains administered days and the Netholica Costal and the Netholica Costal problems were advected and the Netholica gains administered Pelochar specific the net result of the Netholica gains and implementation in constraining procedures, and confitting poli-Resonancediance. States should be helped to downlow mutherly and individue the publica program. Pelocide gained and helpede the program the Pelocide and Pelocide and the Netholica Costal and the Netholica of Pelocide approxitation and the program the Pelocide and the Netholica of the Interview of t dinated among the States and technical information assistance should be expanded. (HTW)

183

Informatise-Gathering Activities of the Nuclear Regulatory Commission. ACOR8:77:3; B-150235. December 28, 1976. 7 pp. Report to Marcus A Rowden, Chairman, Nuclear Regulatory Commission; by Phillp S. Hughes, Assistant Comprediet General.

The directiveness of his Nieder Explaincy Commission's NICS unformation-theory argum could be improved. Both NICS unformation-technical prepara could be improved. Both to effective information gathering, but the program operates informings and problems one occurs in the absence of management coutrols. Resemendings The NICs choids: (1) satisfies a Formal discretionary preparation of the state of the state of the proton the critical management country of plane the information demonstrate debilings, and (2) plane the information demonstrate debilings, and (2) plane the information demonster to ear a billion with the directional domain collings. [DAD

189

Survey of Publications on Exploration, Development and Delivery of Alashan Oil Market. EMD-77-11; B-174944. January 14, 1977. Released January 17, 1977. 40 pp.

Report to Sen. Henry M. Jackson, Chairman, Senate Committee on Interior and Insular Affairs; by Elmer B. Staats, Compteoller General.

Organization Concernadi Department of the Interior; Pederal Enorgy Administration; Alyeska Pipeline Service Co.; Atlantic Richfield Co.; Standard Oli Co., Inc.

Congressional Relevance: SensteCommittee on Interior and Insular Affairs.

Awhenity: Mineral Lessing Act of 1920 (P.L. 93-153), National Environmental Policy Act of 1969, Alaskan Vessel Traffic Regulation Act of 1977, Trans-Alaska Pipeline System Authorization Act of 1973.

information was esthered from more than 100 publications on the feasibility, advisability, and building and operation of the Trans-Alaska Pipeline System. Findings/Concientany: The existence of oil in Alaska has been known since shout 1902. It is in a sandatone formation under heavy permattest layer, near Prudhee Bay and is the high-sulfur, heavy crude type, Leasing brass in 1969, after which the lessees divided the area in half. Estimated initial production will be 1,200,000 barrels a day by 1978 and development expenditures are estimated to be \$2,430 million by 1979. The need for the pipeline was first evaluated in 1963 and construction finally permitted in 1973. after proper legislation was enseted and conservation group injunctions ruled upon. The pipeline extends \$01 miles from Prudhoe Bay to Valdez, across several mountain ranges and land of varying degrees of stability. The pipeline has safety valves to guard against oil leaks, and special construction techniques and materials were used because of the ground and temperatures conditions. Continual monitoring of the pipeline will be maintained by a computer in Valdez and a microwave communications system. Completion is expected in 1977, at an estimated cost of \$7.7 billion. Three long range distribution systems are being considered and one short term system. (shipping through the Panama Canal). The long-range plans are trans-provincial, northern tier, and Schlo mid-continent. Foreign sales require Presidential and Congressional approval. There appears to be an adequate domestic tennage supply for marine transportation. The ICC has regulatory jurisdiction. (SS)

America's Energy Patures, January 19, 1977. 17 pp. Speech before: Brookings Conference, Williamsburg, VA; by Monte Carfield, Jr., Director, energy and Minerals Division

Organization Concerned: Ford Foundation.

The basic meray choices available to the United States depend on energy conservation. Total U.S. energy consumption more than doubled between 1950 and 1973. The Energy Policy Project (BPP) has concluded that the central energy problem in the next 25 years will not be the lock of energy resources per se, but the large potential for rapid growth in energy consumption. People want a reliable supply of energy at the lowest total cost to society that is standardized regionally and economically and as safe and as free as possible from international problems. These desires can be achieved by the market or by government intervention. In several years there will be no new major source of energy, no major rebuilding, and no major new transportation systems. Three merry scenarios can be considered the Historical Growth somatic by which total energy commention is segment to grow at 3.4% ner year and requiring technological and expenditure increases that may be impossible to achieve: the Technical Pix scenario by which U.S. energy consumption would increase 1 8% yearly; and Zero Growth by which consumption would stabilize at about 1.5 times present rates. Technical Fit provides both more time and more flexibility than Historical Growth and requires less capital. The U.S. should move toward Zero Growth, parallelling Technical Fix until the mid-1980's to allow for lead time problems. (OM)

191

National Energy Policy: An Agende for Analysis. EMD-77-16; B-178205. January 27, 1977. 56 pp.

Report to the Congress; by Elmer B. Stasts, Comptroller General

Organization Concarned: Energy Research and Development Administration; Nuclear Regulatory Commission; Federal Power Commission; Federal Energy Administratico, Department of the Interior Compressional Relavance: Coggress.

Avthenity: Foderal Esorgy Administration Act. Energy Supply and Environmental Coordination Act. Geothermal Energy Research, Development, and Pernenstration Act. Solar Heating and Cooling Act. Solar Energy Research, Development, and Demonstration Act. Energy Records and Act. Neurscelear Energy Research and Development Act of 1974.

An assessment of national course problems don't with the urgood for any solicito is solid the howy relation on margin processproblems of assister flatting, future relations of the solicity of the end of a solicity flatting, future relations on formil both, sepecially end, and possibilities of streams are source, clearation were apposed about the ords of the Steams agreement in the Thomas agreement of the solicity of the solicity of the solicity of the solicity management of the solicity of the solicity of the solicity management of the solicity of the solicity of the solicity solicity of the sol

192

Way to Strengther Compositional Control of Energy Construction Project Other Theor Nuclear, EMD.77-25, B-178726. Petrucy 23, 1977. Robust Match 10, 1977. 3 pp. + encidences (21 pp.). Report to Sen. Heary M. Jackson, Chairman, Stanie Committee on Energy and Natural Resources; Rep. Ulti. R. Tangu, Chairman, House Committee on Solence and Technology; by Robert F. Keller, Adulta Commerching General. Organization Concerned: Energy Research and Development Administration.

Congressionel Relavance: House Committee on Science and Technology, Smate Committee on Energy and Natural Resources.

Authority: Pederal Nonnuclear Energy Research and Development Act of 1974 (P.L. 93-577).

The Energy Research and Development Administration's (ERDA) budgeting, accounting, and reporting procedures associated with construction-related activities for nonnuclear energy research and development projects were reviewed. The purpose of the register was to determine the extent to which existing legislative reporting requirements provide Congressional committees with information recessary for effective control over the funding of such projects. Of particular interest was ERDA's compliance with the reporting and specific authorization requirements of the Pederal Neonuclear Energy Research and Development Act of 1974. Findings/Conclusions: These requirements are inadequate because they are vague and allow selective interpretation, thus limiting the shillty of Congress to control nonmelete energy projects. ERDA has not established any specific criteria for use in identifying the types of nonnuclear energy projects subject to the reporting or specific authorization requiremonts The 1974 act is not clear about which type of projects must he reported or specifically authorized. Nowhere in the act are types of projects specifically defined Recommendations: ERDA should develop legislation which would clarify the act on the types of prosects requiring reports or specific authorizations. ERDA should develop and provide the authorization committees with its definitions of the various project phases together with an identification of the phase of each acconniclear energy propert meeting the minimum cost criteria for reports or specific authonization (RRS)

193

Energy Policy Decisioumaking, Organization, and National Energy Goals. EMD-77-31; B-178205, March 24, 1977, 45 pp. Report to the Congress, by Elmor B. Staats, Comptroller General.

Organization Concerned: Poderal Energy Administration: Poderal Power Commission: Department of the Interior: Energy Research and Development Administration, Professional Audit Review Team. Congressional Balavenes: HowerCommittee on Overenment Operstices; Sussit Committee on Governmental Affairs.

Authority: Omnibus Energy and Natural Resources Reorganization Act of 1977; S. 591 (95th Cong.). Department of Energy Organization Act; S. 426 (95th Cong.). Federal Coai Lessing Ameriments Act of 1975 (P.L. 94-177). Energy Polley and Conservation Act; S. 27 (94th Cong.); S. 2726 (94th Cong.).

Burger functions are divided among sevent squares with evolutions of a set of early conversion of development of standard sevent sevent seven and sevent sevent sevent sevent seven seven

Recommendations: Congress should ensert lagitation to exhibit a Department of Baregy with responsibilities for automobile fact economy and energy preduction planning. The legislation should call for continuation of the Predessional Audit Review Team, establish coordination with other ageocies, and reaffirm $\partial AO's$ monitoring role. Congress should also examine energy regulatory functions. (ATW)

Evergy Respanitation Legeslation. March 25, 1977. 18 pp. + oxolosure.

Pertinony before the Senate Committee on Governmental Affairs; by Elmer B. Staats, Comptrollor General.

Organization Concerned: Federal Energy Administration; Professional Audit Review Team.

Congressionel Relevence: Senar Committee on Governmental Affairs.

Authority: Federal Cost Mine Health and Safety Act of 1969 (30 U.S.C. 801), S. 591 (95th Cong.), S. 826 (95th Cong.).

Of the various remedies that are available to close the gaps in the energy devisionstables process the recommended remedy is to oraate a Department of Energy and Natural Resources (DENR). The creation of a separate administration having statutory jurisdiction for energy data is advisable. Congress should utilize the Professional Audit Review Team (PART) in order to gather vital information on energy data. The proposed DENR should have the responsibility for automobile fuel consomy standards and energy conservation performance standards. An energy health and safety regulatory organization will be norded, which will be either completely independent of the DENR or, if included within the Department, will be carefully insulated from its promotional activities. A clarification of the administration's proposed treatment of the relationship between Fedstral land management notice and energy policy would be beloful. A high-level council, headed by the Secretary of the DENR, should be formed to coordinate all Federal activities related to energy. The General Accounting Office should carefully monstor the activities of the DENR to provide Congress with information for assessing its performance (LDM)

WHAT ARE THE PROSPECTS FOR TRANSITION TO ESSENTIALLY RENEWABLE ENERGY RESOURCES (GEOTHERMAL, SOLAR, FUSION)?

195

Management of the Atomic Evergy Commission's Controlled Thermonuclear Remarch Program. B-159687. Docember 8, 1972. 43 pp. + 2 annendrices (3 re).

Report to Sen, John O. Pastore, Chairman, Joint Committee on Atomic Encerv, by Elmer B. Stants, Comptroller General.

Organization Concerned: Atomic Energy Commission. Congressional Relavance: Joint Committee on Atomic Energy.

From fiscal year 1951 through 1972, the Atomic Roccay Commission (AEC) incurred costs of about \$449 million in the Controlled Thermonuclear Rosearch (CTR) program. The program was conducted under research contracts at AEC-owned, contractor-operated laboratories and at universities and other institutions. The overall objective of the program is to develop a major source of govery from controlled thermonuclear fusion. Findings/Conclusions: AEC has established mechanisms to control and coordinate efforts of contractors responsible for conducting the program, including: reviews by the standing committee and ad hoc technical panels related to organing and planned program efforts; establishment of research priorities; and technical evaluations of research proposals submitted by universities and other institutions. Recommendations: In establishing research priorities, it would be useful if AEC would document and communicate to CTR laboratories and AEC field offices rules pertaining to CTR devices which require AEC's review and approval before fabrication. AEC should also require, as part of this rule, that any proposed device which is a revision or modification of a recylously disapproved device, regardless of the estimated cost of the revised device, be subject to AEC's review and approval befere fabrication. (Author/QM)

Energy Digest SEPTEMBER 1977

Comments on H.B. 11212, 33rd Congress, a Bill to Further Research, Development, and Commercial Demonstrations in Geothernol Energy , B-178726. April 19, 1974. 3 pp.

Letter to Rep. Olin E. Tesque, Chairman, House Committee on Solence and Technology; by Robert F. Keller, Deputy Comptroller General.

Organization Concurned: National Science Foundation; National Aeronautics and Space Administration.

Congressional Relavance: Hour Committee on Science and Technology.

Authority: National Science Foundation Act of 1950, § 3-4 (42 U.S.C. 1862). National Aeronautics and Space Act of 1958, § 203 (42 U.S.C. 2473). H.R. 11212 (93rd Cong.).

197

Review of Scienced Pederal and Private Solar Easing Activities. B-178726. June 18, 1974. 23 pp. + 9 appendices (16 pp.).

Report to Rep. Mike McCormack, Chairman, House Committee on Solence and Technology: Bargy Research, Development and Demonstration Subcommittee; by Phillip S. Hughes, Assistant Comptroller General.

Orgenization Conserned: National Science Foundation.

Congressional Relavance: House Committee on Science and Technology: Energy Research, Development and Demonstration Subcommittee.

A review of solar energy activities focused on Federal funding. objectives of Federal activities, interagency coordination, private sector activities, and economic evaluations. Findings/Conclusions: Federal funding for solar energy research, development, and demonstration activities has increased each year since 1970, with solar heating and cooling petting most of this support. The \$50 million 1975 solar energy budget included \$17 million for heating sed engling. The National Science Foundation was designated in 1973 as the prime agency in Federal somert of research on terrestrial applications of splar newer. The Foundation has contributed the various Federal activities through several means, including the formulation of a Foderal solar heating and cooling program and an Interagency Panel for Terrestrial Applications of Solar Energy. Considerable private sector interest exists, ranging from individuals who use solar systems in their homes to some 70 organizations working in the field. The future economic fessibility of solar heating and cooling is still problematical. Two key cost factors are the costs of conventional fuel and solar colloctors, (Author/DIM)

195

How Solor Energy Was Treated in the AEC Chairman's Report, "The Nation's Energy Fature": B-178205. October 18, 1974. 27 pp. + 4 appendices (8 pp.).

Report to Sen. James Abourezk; by Elmer B. Stants, Comptroller General.

Organization Consumed: Atomic Energy Commission, Congressional Relevance: Scr. James Abourezk, Authority: Environmental Policy Act of 1969 (42 U.S.C. 4332).

In respect to a Possibility of the Atomic Beorgy Commistics (AEC) reviewed the mean for a triving a recommenddentryment. CMD reviewed the mean for a triving as recommending the atomic and the second second second second second recommendations of the solar secrety review panel. Fulfacture Consolutions The Intergy Recognition Unit (REQ), and highlight Consolutions that the lowing planet effective panel. The fulfacture and the second second second second second second second and the second second second second second second and the second second second second second second sector of the second second second second second second sector of the second second second second second second sector of the second sive panel of sight Government officials to gait tagshow the Control officient and economications of the 16 panel and a non-5-year, 10 billion pregnem. The overnwer panel made majer reductions in finding invest recommended by the 16 review patels to device) to the 10 billion pregnem, and reduced finding recommendations of the solite recommended by the 16 review patels to instand the solite pregnem and that seconomications were any individe. The patel path were had occurs of its adjustment that solit energy wine balcally long-term and that seconomications were any individe. The path path had occurs to recommendations that the solite second and the second second second and the solite second second second second second second metals and the second second second second second metals at the second second second second second second metals at the second second second second second second metals at the second second

199

Problems in Identifying, Developing, and Uring Geothermal Resources. RED-75-330, B-178205 March 6, 1975. 59 pp. + 5 appendices (11 pp.).

Report to the Congress; by Eimer B. Stasts, Comptroller General.

Organization Concerned: Atomic Entrgy Commission; Burton of Land Management: Energy Research and Development Administratice; National Accounties and Space Administration; National Science Poundation; Großogical Survey. Controstional Relevance: Contents.

Vengerminde internal Energy Research, Development and Demonstration Act of 1974 (FL, 5)-41(5). Gosthermal Steam Act of 1976 (30 U.S.C. 1001-23). Outer Constitutial Steam Act of 1976 (30 U.S.C. 1001-23). Outer Constitutial Steam Act of 1966 (43 U.S.C. 1331-1442). Colorado River Batin Project Act of 1966 (43 U.S.C. 1301). Energy Recognization Act of 1794. PL, 39-438. H. Rept. 93-1101. Rolch v. Commissione of Internal Revenue, 454 F. 20 1157 (b)t Gc. 1972).

Geothermal resources can be used to produce energy, fresh water, and minerals. The Pederal hudget for fiscal year 1975 requested. showt \$49 million for geothermal exploration, research, and developman Finding/Conclusions: Estimates of electric power that may be produced from geothermal resources in the United States by 1985 range from 4,000 to 132,000 megawatis. The geothermal leasing program has not proceeded as rapidly as anticipated due partly to the little-known characteristics of the resourcest and partly to the early state of the technology. The lack of information used in designating lands as known prothermal resource areas is another problem in the leasing program. Designation of lands as goothermal resource areas is often not based on a scological survey. The minimum expenditures required of the lessee in the 10-year primary lesse term could be insufficient to cover the cost of drilling one exploratory well, and no minimum expenditures are required in the first five years of the lease. The variety of laws dealing with ownership and centrol of minerals. gas, and water causes delays in lease asuance. Recommendations: The Secretary of the intenor should improve the methods for designating known goot harmal resource area by obtaining autourface data when practicable or analyzing the geology of any area before a value is assigned and it is offered for lease; increase the level of expenditures required of lesses during the primary 10-year lease term and provide more specific requirements as to the minimum developmental actions required during the initial five years of the lease; where ownership of geathermal resources is in despute, provide for issuing leases with the understanding that all rents, revulties, and honuses would be held in escrew, pending resolution of the title question; propose lexislation to classify geothermal resources in a special class: and propose legislation to clarify the Department's authority for offshore goothermal leasing (QM)

200

Robertal and State Solar Europy Research, Development, and Demonstraslon Activates. RED-75-376; B-178205. June 10, 1975. 2 pp. + appendix (26 pp.).

Report to Sen. Hubert H. Humphrey, Chairman, Joint Economic Committee; by Elmor B. Staats, Comptroller General.

Organization Concerned: Energy Research and Development Administration; Department of Agricolture; National Aeronautics and Space Administration; National Science Foundation.

Congrassionel Relevence: Jour Boonumic Committee.

Avinsethy: Energy Reorganization Act of 1974 (P.L. 93-438), Solar Heating and Caoling Demonstration Act of 1974 (P.L. 93-409) Selar Energy Research, Development, and Demonstration Act of 1974 (P.L. 92-473), Poderal Non-Nuclear Energy Research and Development Act of 1974 (L. 9.9-577).

Four agencies carry out most of the Federal Government's salar energy research and development activities: Energy Research and Development Administration, National Science Foundation, Depertment of Agriculture, and National Aeronautics and Space Administration. Findings/Conclusions: Estimated Federal funding for these spencies for fiscal years (FY) 1975 and 1976 for solar energy research and development was \$52.7 million and \$78.0 million, respectizely. As of Areil 30, 1975 about \$22.1 million of \$49.7 million available had been spont or obligated on these activities and the remaining \$27.6 million was expected to be obligated by the end of the fiscal year. The major Federal funding emphasis was on solar beating and cooling technology. The executive branch had not issued suddlines on the allocation of funds to avoid duplication; and there were no programs for evaluating or certifying solar energy devices. although efforts in this direction were underway. In addition to Federal Funding, at least five States were funding solar energy projects. amounting to about \$200,000 for the period July 1, 1974, through April 8, 1975. (HTW)

201

Federal Hydroelectric Flants Can Increase Power Soles. CBD-76-120; B-125042. July 8, 1976 24 pp. + uppendices (11 pp.). Reserv to the Congress: by Eliner B Status. Comptreller General.

Organization Concernad: Bonneville Power Administration; Bureau of Reclamation, Southwestern Power Administration; Department of the Interior.

Congressional Relevance: Congress

Hydroelectric power accounts for about 15% of the Nation's electric-generating appacity of which short 40% is Government, owned. Additional hydroelectors descadeble consoity can be made available for sale by changing the methods the Department of the Interior nower-marketing agencies use in determining how much capacity can be sold and reassessing the amount of capacity which is held in resorve for contingencies. Findings/Conclusions: If the power-merketing agencies had plans for purchasing power from other systems during low-water years, the result could be 110 mereo. watts of additional dependable peaking capacity in two of the Bureau of Reclamation regions. In addition to operating reserves, the Bureau of Reclamation requires that reserves be maintained for maintenance and customer load growth. Power-pooling agreements which state the reserve requirements for its members do not adequately recornize that hydroelectric systems do not break down as often as other forms of power generation. If reserves more realistically represented espected conditions, the Pederal reserves could be reduced. The additional capacity thus made available could be sold. Recommendefines: The Secretary of the Interior should have the Poderal power-marketing agencies (1) establish uniform auidelines for determining the Federal power system's generating capability under adverse conditions, recognizing the differences of the various Foderal systems; (2) determine the feasibility of establishing dependable capacity based on purchases of power; (3) identify and obtain the modifications required to imploment this method, including a provision for enough money to purchase the power needed in low-water years; and (4) sell any additional capacity as dependable based on the results of the above action. The Secretary of the Interior should also require: the Bureau of Reclamation to redetermine the reserve requirements for each power system, considering the benefits derived from pooling arrangements and the elimination of reserves based on load growth and maintenance; and the Pederal power-marketing agencies to negotiate for more equitable resorve requirements and to sell the capacity that may become available as a result of redetermining reserve requirements (Author/QM)

[Opportuable: In Improve Flouring for Solar Energy Research and Development]. BirD-77-16; B-178205. November 20, 1976. 5 pp. Roport to Robust C. Samanso, Administrator, Energy Recarch and Development Administration, by Monte Canfield, Je, Director, Energy and Minerals Dv.

Congressional Relevance: Houre Committee on Solence and Technology; Smale Committee on Interner and Insular Affairs Authority: Energy Reorganization Act of 1974 (P.L. 93-438) Solar Heating and Cooling Demonstration Act of 1974 (P.L. 93-409)

The Reeray Research and Development Administration's (FRDA) roler restarch development and demonstration program was surveyed to assess the adequacy of the planning process established to meet program goals. Findings/Conclusions: ERDA research focuses on seven different solar technologies, for which a number of program plans have been established. However, ERDA's present plant indicate only a ten percent polar contribution to owned energy needs by 2000 A.D. HRDA has not established a formal priority system for allocation to each technology or cost or performance objectives, without which program effectiveness and progress cannot be eva. ted. Recommendations: ERDA should establish a formal system for setting priorities to allocate limited resources among the different technologies; develop measurable cost and performance objectives, with a companion schedule research, development, and demonstration activities; and establish a system of decision points for evaluating the success of the program in meeting established costs and performance objectives. (DJM)

203

[Management and Funding Aspects of Three Honnaclear Energy Research, Deuklapman, and Dannesstration Subprograms]. EMD-77-24; B-166105, February 25, 1977, Releazed March 7, 1977, 3 pp. + conclosure (22 pp.).

Report to Son, Frank Church, Chairman, Senato Committee on Eaergy and Natural Resources: Bnergy Research and Dovelopment Subcommittee; by Robert F, Keller, Acting Comptroller General.

Organization Concerneds Energy Research and Development Administration.

Congressional Relevances SonateCommittee on Energy and Natural Resources: Energy Research and Development Subcommittee. Authority: Energy Reorganization Act of 1974 (P.L. 93-438).

Management and funding aspects of three nonneclear energy research, development, and demonstration subprograms under the Energy Research and Development Administration were examined. The three subprograms were photovoltaic energy of the solar energy program; direct combustion of the cost program; and hydrothermal technology application of the acothermal energy development program. Findings/Conclusions: The extent to which research, development, and demonstration funds were used for management support services among the three subprograms varied. The amounts used for planning and managing were: \$1.8 million (5.3%) for solar photovoltaic energy: \$5.4 million (9%) for coal direct combustion and \$0.2 million (1.1%) for hydrothermal technology applications. The management support services included: planning subprogram activities, reviewing and evaluating research proposals, and contract and edministrative support. Amounts of research, development, and demonstration funds used for planning and management services were not disclosed in the agency's budget justification documents or accounting records. Recommendations: ERDA should separately identify in the budget and accounting records each subprogram's research, development, and demonstration funds used for management support services and make the amount of such funds visible in the Agency's annual budget submission to the Congress. (RRS)

Energy Digest SEPTEMBER 1977

204

[Power Pector Requirements Impased by Fadewal Power-Marketing Agencies on their Castroneers]. B-114558. Match 9, 1977 9 pp. Lester to Scoretary, Department of the Interior, by Monte Castileid, Je., Director, Entray and Marchia Div

Organization Concerned: Bonneville Power Administration; Bureau of Reclamation; Southwestern Power Administration.

205

Power Production at Federal Dawn Could Re Increased by Modernizing Turbines and Generators. EMD-77-22; B-125042. March 16, 1977.-12 np.

16 per Report to Secretary, Department of the Interior; Secretary, Department of the Army; Chairman, Tennessee Vallay Authority, by J. Deuter Peach (for Monte Canfield, Jr., Director, Energy and Minerals Dir.).

Congrassional Ralavancas House Committee on Interior and Insular Affairs; Sensir Committee on Interior and Insular Affairs,

Printing Pederal hydroelectric plants could increase power production by modernizing turblnes to increase efficiencies and espacities and by modernizing generators to increase capacities. Rindings/Conclusions: Increasing hydroclectric power production will increase the Nation's energy supply, displace consumption of nonrenewable fuels by fossil-fael power plants, reduce pollution, increase Federal revenues and displace or delay construction of alternate power sources. Detailed analysis at each power plant is needed to determine what modernization improvements might be made and if they would be cost effective. At present, the agencies do not have a system to make sure that opportunities are identified and acted upon. Recommendations: The Secretaries of the Interior and the Army and the Chairman of the Board of the Tennessee Valley Autherity should: identify opportunities to amprove hydropower production through covintront modernisation, implement those that are comomically justified, and consider making changes before the end of the oppinment's useful life; include in the comemic analysis the value of cill or coal consumption displaced and, either directly or indirectly, the value of maintenance costs reduced by installing new equipment: include feasible turbine and generator modernization in their overall hydroclectric nower constalen plans; and develop avatems to make sure that future technological improvements are roopenized and considered for implementation in existing systems. (Author/SC)

206

[The Federal Wind Energy Program]. EMD-77-33; B-178205. March 29, 1977. 6 nn.

Report to Robert W. Fri, Acting Administrator, Enorgy Research and Development Administration; by Monte Canlield, Jr., Director, Energy and Minerals Div.

Organization Concerned National Science Foundation; National Aeronautics and Space Administration; Department of Agricolture. Congressional Relevances Houre Committee on Science and Technology; Strasfe Committee on Energy and Natural Resources.

Under the direction of the Energy Research and Development Administratic (BRA), the Natisofal Arcsussius and Space Administration is responsible for developing, testing, and evaluating iters with energy systems, and the Department of Aprications to responsible for Identifying, developing, and testing applications in medium, and large systems from July 1974 through Stytecher 1976, and the systems have an advection of the system of the system system is a system of the system of the system of the system of the system is the base based on its built that workshorts commercial markets each for large systems bits not for small and medium-sized systems from share the system bits not for small and medium-sized systems from system bits not for small and than the small and medium-sized; Federal assistance will be needed by industry to develop and commerciature large systems, but little Federal assistance will be needed to develop and commercialize amaller systems; areas needing improvement are well-defined for large systems, but not for the small and medium-tired; and a Federal program to develop amail and medium-sized systems would eliminite private investment Findings/Conclusion: A GAO survey of the Wind Energy Program showed that the decision to stress large systems was made without comparative analysis of small and medium-sized systems; and ERDA needs to systematically compare and evaluate the potential and advantages and disadvantages of wind energy systems of all sizes so that program content and priorities are proper and that resources are effectively allocated among the different sized wind energy systems and between the wind program and ERDA's other programs. Recommendations: ERDA should: direct the expeditious completion of market studies in sufficient depth to identify the commercial potential of small, medium, and large wind energy systems; using these market audies a conjunction with the ongoing and completed studies, make a comprehensive formal review of the formal potential and the advantages and disadvantages of wind energy systems of all sizes, and, if warranted, redirect resources within the Wind Energy Program and between the wind program and non-wind programs. Provided ERDA's comprehensive roview abows that small and/or medium-sized systems have the potential for rapid commercial expansion, it should move quickly to develop optimum designs, identify constraints and impediments to commercialization and take actions to overcome them, and, if necessary, develop plans to demonstrate these systems. (Author/QM)

IS THE FEDERAL GOVERNMENT WISELY EXERCISING TRUSTEESHIP OVER ENERGY SOURCES ON FEDERAL LANDS?

207

[Provisions of Navajo and Hopl Cosi Leases]. B-177079. January 29, 1974. 8 pp. + 2 enclosures (2 pp.).

Report to Son. Henry M. Jackson, Chairman, Senate Committee on Interior and Insular Affairs; by Elmer B. Stasts, Comptroller General.

Congressional Relevance: Senar Committee on Interior and Insular Affairs,

Authority: Mineral Lands Lessing Act (30 U.S.C. 181).

Regardless and other properties that by built and flags in basing on the last as a to this with weath weath weath the last and the characteristic set of the last and the last and the last characteristic set of the last and the last and the last characteristic set of the last set of the last and the private and lasters have being the last and the last private and lasters have being the last and the last private and lasters have being the last and the last set of the last set of the last set of the last set of the set of the last regardle and the last set of the last regardle and the last set of the last regardle and the last set of the last regardle and the last set of the last regardle and the last set of the last regardle and last set of the last set of t

206

Followup on Certain Motters Concerning the Impetiton and Regulation of Outer Continental Shiff Oil Operations. B-146333. February 26, 1974. 12 pp. + 2 enclosures (7 pp.).

Report to Rep. Henry S. Rruss, Chairman, House Committee on Government Operations: Cosservation, Energy and Natural Resources Subcommittee; by Eliner B. Stats, Comptroller General. Organization Concerned: Department of the Interior; Environmental Protection Agency: Goological Survey.

Congressional Ralavaines: Hear Committee on Overanment Operations: Conservation, Broegy and Natural Resources Subcommittee. Avisority: Outer Continental Shelf Lands Act, § 5, 30 C.P.R. 230-43. Outer Constituental Shelf Order No. 7. Outer Continental Shelf Order No. 8, Outer Constituental Shelf Order No. 11.

The Department of the Interior has implemented several suggestions regarding the inspection and regulation of ail drilling operations on the Outer Continental Shelf (OCS). Geological Survey (Survey) Gulf Coast personnel have been reinstructed to apply the prescribed enforcement actions for all vigistions unless deviations have been authorized, instructions were given to survey western region personnel describing the conditions under which they should halt all or part of the operations on a platform. Findings/Conclusions: Survey estimates that by 1976 its Gulf Coast operations will have to be carried out from six district offices at a total operating cost of about \$4.6 million. Survey has declared its intention to clear up any confusion in OCS regulation provisions regarding olispill prevention. Survey has not informed the public of the issuance of notices of noncompliance, but such information is svailable on request. The suthority to fine lessees for willful violations of GCS regulations has been used only once. Survey is proposing a revision of OCS Order No. 8 eliminating confusing wording and regulting the operator to be ready for inspection at any time. Punitive shut-ins are not used as a means of enforcing OCS regulations and orders. During January 1968 and January 1969 nearly 8 billion and 4.5 billion cubic feet of ass, respectively, were flared from Federal OCS leases in the Gulf Coast Region. Survey intends to eliminate gas flaring where it will result in a greater loss of equivalent total energy than could be produced if gas flaring was allowed (QM)

209

[Agreement between the Secretary of the Interior and Officials of the State of Unit Pertuining to Oil Shale Lenter], B-164613, March 27, 1974. 4 pp.

Letter to Rep. Charles A. Vanik; by Elmer B. Staats, Comptroller General.

Organization Concerned: Department of the Interior; Utsh. Coopressional Relevance: Rep. Charles A Vanik. Authority: Taylor Grazing Act, § 7 (42 U.S.C. 3150). 43 U.S.C.

851-852. 30 U.S.C. 191. 42 Op. Att'y Gen, 10.

210

[Oil and Gas Leasing on Federal Lands]. B-178205. July 12, 1974. 5 m.

Report to Sen. William V. Roth; by Elmer B. Staats, Comptroller General.

Organization Concerned: Department of the Interior.

Congressional Relevance: Sea William V. Roth. Avthethyn Olior: Continental Shell Lands Aot (67 Stat. 463; 43 U.S.C. 133), Minrai Lands Leasing Act (41 Stat. 437; 30 U.S.C. 181), 30 C.F.R. 250, 43 C.F.R. 3300, 43 C.F.R. 3100, 43 C.F.R. 310, 43 C.F.R. 3120.

Information was required on oil and gas busing or public lands of overall statistics the number of producing and associated and associated on the statistic of producing and associated productive life, bud on to classic producing and associated productive life, bud on classic production minimum. Casabase and associated production of the statistic production of productive life, bud on classic production was relative to a statistic production of the statistic production of the statistic production for classic production, with regulated budgets for classic production, with regulated budgets for cl and classical back. There were (10.4112) producing and composition and classical back. There were (10.4121) producing and composition and classical back. There were (10.4121) producing and composition for the production of the production of the production of the state provides and the production of the production of the state production. There were (10.4121) producing and composition of the production of the production of the production of the state production of the production of the production of the state production of the production of the production of the state production of the production of the production of the state production of the production of the production of the state production of the production of the production of the state production of the production of the production of the state production of the production of the production of the state production of the production of the production of the production of the state production of the productin of the production of the production of the producti royalites, rent, and beneses totaled \$4.1 billion. Leases on Indust lands produced \$25 million. GAO is still reviewing the Interior Department's lessing program, particularly as regards production/nonproduction.

211

[Lossing of Minorals on Public Lands]. B-164613. September 19, 1974. 4 pp.

Report to Rep. Charles A. Vanik; by Elmer B. Staats, Comptroller General.

Orgenization Concerned: Department of the Interior. Congressional Reisvones: Ros. Charles A. Vanik.

Congressional Kniwomen, Ap. Christ A., Veniz, Awthority, Minerell Lands Leasing, Act (30 U.S.C. 181); 43 C.F.R. 3100; 43 C.F.R. 3500, Outer Continental Shelf Lands Act (43 U.S.C. 1333); 43 C.F.R. 3300, 31 U.S.C. 483a, B-118678 (1970), OMB Circular A-25.

Mineral leasing laws and regulations do not contain specific provisions requiring prelease evaluation for mineral leases on public lands offered for competitive bidding. However, Office of Management and Budget Circular No. A-25 directs Federal agencies to require such lessing at fair market value. Findlags/Coachuloss: Prolease evaluations are made where possible using discounted cash flow techniques for measuring profitability. GAO is still examining the Interior Department's use of this method. Noncompetitive mineral leases and prospecting permits for oil and gas on public lands are issued for exploration and development onshore where deposits are not known to exist. Rents and royalties are the same as for competitive leases, which also call for bonus payments. Other orahore minerals as coal, phosphate, aodium, sulphur, and potash are similarly lessed and prospected. In February 1973, the Department suspended coal leases until it had developed a comprehensive plan for coal resources. In the past, GAO has recommended that all leases be awarded competitively at fair-market value. (DJM)

212

National Ocean Policy Study. September 23, 1974. 13 pp. Testimony before the Senate Committee on Commercit; by Monte Canfield, Jr., Director, Office of Special Programs.

Organization Concerned: Ford Foundation.

Congressional Relevances Sentre Committee on Commerce. Authority: Constal Zone Management Act of 1972. National Environmental Pollov Act of 1969.

Petera Lealay of the California Orac Construction Staff must be considered in the counter of walkable servery points and environments impact. Respired by ()AO wires shared backing with Medium and Peter Oracidations (Respired Park), Peters weilt ()) when servery growth² which would rely out infor constructions and doremand demonstructions and the server of the server ()) when servery growth² which would rely out infor constructions and doremand demonstructions were noted, built is were (1) when servery these spinoses were noted, built is not fatter them is a good potential for energy countervision. In relation to QC servery particular, states of orderability accurate data for dimensional growthem particular, the endpring the server of the server of the servery particular, or analytic in these ends were apped, () (TPT)

213

[Issues in Leasing the Atlantic Outer Continental Shelf]. Pebruary 28, 1975. 10 nn.

Testimory before Massachusetts: Special Legislative Commission on Marine Boundaries and Resources; by Monte Canfield, Jr., Diractor, Office of Special Programs.

Prepared with the assistance of Horman Gelvin, Assistant Director (Energy).

Organization Concernad: Department of the Interior.

Authority: Coastal Zone Management Act.

The mid-Atlantic Otter Continental Shelf (OCS) is scheduled to be offered for lease for oil and gas development. In testimony given in 1973 dealing with Federal energy resource development policy, it was stated that uncertainities involved in OCS leasing resulted from lack of adequate information and poor understanding of environmental, social, and economic impacts of development. It is important to consider State and local needs in policy planning; however present policy is not directed to these needs. GAO reports planned for release deals with: Federal goals to accelerate lessing of resources on the OCS and with improvements possible in determining where and st what dollar value to lesse. Differing estimates of resources contribute to questions about the value of OCS development compared to alternative energy sources. Federal energy policy is still suffering from gaps in information and management, but some useful studies and actions have been taken. Studies cited concern: instact on marine environment, effects of industrialization, effects on public policy, and methodology. (HTW)

214

Outlook for Pederal Goals to Accelerate Learing of Oll and Gas Resources on the Outer Continuut Shafe, RED-75-343; B-118678. March 19, 1975. 32 pp. + 4 appendices (8 pp.). Report by Elime B. Statts, Compiralier General.

Organization Concerned: Pederal Energy Administration; Department of the Interior.

Authority: Onter Cominental Shalf Lands Act (43 U.S.C. 1332). Baguative Order 11814.

Federal goals for leasing of oil and gas resources on the Outer Continental Shelf changed significantly in the period from 1971 to 1975. Findings/Conclusions: The leasing and increased from 1 mil-Hos acres in 1971 to 10 million acres in 1974-only 0.8 million acres less than the total acreage lessed in the 20-year period of the Pederal Shell leasing program. The Department of the Interior established the accelerated leasing goal of 10 million acres without carefully analyzing and considering several factors and problems affecting the goal's soundness. Interior's decision to lease the 10 million acres was reached before the Project Independence study was initiated in March 1974. There is general agreement that existing and predicted shortages of materials, equipment, personnel, capital, and other related services will to some degree limit the soliity of industry to expand exploration and development of the Shelf. Actions need to he taken in several broad policy areas in order to minimize constraints to production. Reconvendentious: The Secretary of the Interior should: clearly define Shelf leasing goals and specify how these goals will be met and how they relate to overall national energy goals and plans; and reconsider the accelerated Shelf leasing schedule in the light of Government and industry capabilities and possible alternotives to leasing in new Shelf areas as addressed in the Project Independence analysis and the President's subsequent national energy and economic proposals. (Author/SC)

215

Development of the Oater Continental Shelf Foull Fael Resources. April 9, 1975. 15 pp. + endlosure (2 pp.).

Testimony before the Senste Committee on Interior and Insular Affairs; the Senate Committee on Commerce; by Phillip S. Hughes, Asaistant Comptroller Oeperal.

Congressional Relevance: SenateCommittee on Interior and Insular Affairs; Senate Committee on Contractor,

Authority: Outer Continential Shell Lands Act Amendments of 1975;8: 426 (94th Cong.), Bnergy Supply Act of 1975;5: 521 (94th Cong.), Costal Zone Brivermential Act of 1975; 5: 556 (94th Cong.), National Bnergy Production Boerd Act of 1975; 8: 740 (94th Cong.), Cutter Cortinestal Shell Lands Act of 1955; 8: 740 (94th Experience with the system now musc for lensing and developing Outer Constrained Staff (CC) resources indicates a new file reproving ioning and operating practices. A recent AOA report forecast on the discussions: suice which the Department of the thig and was handly conserved which a deeparts data. Instructor offcells staff with they no longer have this gain, but so are guide startion staff. The process of rest-staff-staff is the covering storers monotenet. The process of rest-staff-staff is the covering storser monotenet. The process of rest-staff-staff is the covering storser process on a soft in procession of the staff is the covering storper provides requires gains by the Completion of the covering storper provides requires gains by the Completion of Covering and the stormether store in the covering store of the store of the store of the covering store and the covering store of the store provides are required a storing by the Completion of the store of the store store of the store

216

[Accelerated Outer Continental Shelf Development]. April 21, 1975.-12 pp. + enclosure (16 pp.).

Ternevory before the House Committee on Appropriations: Interior Subcommittee; by Monte Canfield, Jr., Director, Office of Special Programs.

Organization Conternad: Department of the Interior.

Congressional Relevance: House Committee on Appropriations: Interior Subcommittee.

Authenity: Outer Continental Shelf Lands Act of 1953.

Reviews of issues involved in Outer Continental Shelf (OCS) development have concentrated on leasing goals and tract selection. A Match 19, 1975 report to Congress focused on the circumstances under which the Department of Interior's accelerated "10 million acre" leasure and was developed, its relationship to the Project Independence effort, and constraints expected to hinder the program The apal was heatily conceived without adequate date. After Denartment officials stated that they do longer have this goal but failed to atmostice new soals, GAO recommended that lessing poals should be defited and related to overall national energy goals. In a review of the Federal Government's program for deciding where to lease potential oil and gas resources and at what dollar values, st was concluded that the Government is frequently committed to development before it has sufficient information to make intelligent choices Recommendations to the Secretary of the leterior called for an exploration program including selective test dalling prior to leasing; pacing lease offers to permit data analysis; periodic assessment of economic factors; and a test program for lessing entire geological structures instead of tracts. GAO also issued a report dealing with efforts to control oil stells and is planning additional work in the OCS arca (HTW)

217

Further Action Hended are Recommendations for Improving the Administration of Federal Coal-Learing Program. RED-75-346; B-169124. April 28, 1975. 17 pp. + 2 appendices (3 pp.).

Report to Rep. John E. Moss, by Elmer B. Stasts, Comptroller Genext

Organization Concerned: Department of the Interior.

Congressionel Relavenca: Ren John E. Moss.

Authority: National Environmental Policy Act (42 U.S.C. 4321) Mineral Leasing Act (30 U.S.C. 201(a)). 30 U.S.C. 207. S. 1040 (93rd Cong.).

In a 1972 rapport, there recommendations were much to the Scarrary of the Interfore researes to coal leading. Realing-Conclusions in supposes to one recommendation, the Conlegical Strength and entering the Content of the Interformation of the Interformation to plants. Although 69 minors were subject to this purchases to the Interformation of the Interformation of the Interformation into the Interformation of a subject providing the minor recommendation, including instance of a platforp providing the minirecommendation, including instance of a platforp providing the minis recommendation, including instance of a platforp providing the minis recommendation, including instance of a platforp providing the minis dates related to possible charges in legititition permitting energy forgound applications (in lates terms, No injuries) and the second of the pinking and the learners of the lates of the lates of the second permitting and the second of the lates of the lates of the lates are not appended to the lates of the lates of the lates of the lates the particle of the lates of

213

Outer Continental Shelf Oil and Gas Development: Improvements Needed in Determining Where to Lease and at What Doller Value. RED-75-359; B-118678. June 30, 1975. 42 pp. + appendices (9 pp.). Reserv to the Congresse, by Elimer B. Status, Comprivider General.

Organization Concerned: Department of the Interior Congressional Relevance: Congress.

Authority: Outer Continental Shelf Lands Act (43 U.S.C. 1332). S. 426 (94th Cong.). S. 521 (94th Cong.). H.R. 6218 (94th Cong.).

Development of oil and gas resources on the Outer Continental Shelf (OCS) is considered an important means of lessening U.S. dependence on foreign energy supplies. Legislation which provides for U.S. Jurisdiction over OCS submerzed lands authorizes the Department of the Interior to lease lands for such purposes as production of oil and gas and to regulate operations to prevent waste and conserve natural resources. Findings/Conclusions: Wesknesses have been found in Interior's system of selecting areas to lease. Problems identified an evaluation programs are: (1) they are hindered by inadequate data and analysis: (2) they do not reasonably insure a fair market return on lease offers; and (3) they are being isopard/god by an accelerated leasing pace. The Government's direction and financing are essential to insure that exploratory activities are sufficiently broad to implement a systematic plan for resource sporelast A test program to evaluate, offer, and lease entire prological structures will allow the merits of a structure leasing proposal to be analyzed and evaluated. Recommendations: The Department of the Interior should: (1) direct an exploration program for systematic apprusal of OCS resources; (2) issue permits for exploration by industry; (3) provide for dissemination of acotechnical information to the Government and the public; (4) assess economic factors used in valuing resources; (5) page lease offers at a frequency which nermits consideration of data, and (6) establish a test program for lessing entire geological structures instead of tracts. (Author/HTW)

219

[Accelerated Outer Continensal Shelf Development]. July 11, 1975. 10 PP.

Tentimaty before the House Committee on Science and Technology: Energy Research, Development and Demonstration Subcommittee; by Monte Canfield, Jr., Director, Office of Special Programs.

Organization Concerned: Department of the Interior.

Compressional Relevances: House Committee on Science and Technology: Energy Research, Development and Demonstration Subcommittee,

Authority: Outer Continental Shelf Act of 1953.

GAO work on Duter Continental Biol (OC3) developments has instead leasting applications and trace reletions. A Metric 16; 17:05 report to Compress Researd on the circumstances under which the Depertention of the Compression of the Compression of the Compression of the enviroped, in relationship to the Project Independence of the tracomtentian expected to hinder the program. This goad wes bestly controlled in the Compression of the Compression of the Compression control wild and expected to hinder the program. This goad wes bestly control wild and expected to hinder the program. This goad wes bestly control wild and expected to hinder the program of the Profession method to overall multicant exercing goads. A review of the Profession Government's program for deciding where to leave potential all and an ensures and a vita in dirar vitawa modesned that the Government of Repeating's community on development before it has auflicant and the strength of the strength of the strength of the subsequent day, and strength of the strength of the propulsion of the strength of the strength of the strength induces, provides on the strength of the streng

220

Followap Review of the Naral Patroleum Reserves. LCD:75-321; B-66927. July 29, 1975. 2 pp. + appendices (27 pp.). Report to Rep. John E. Moss, by Elimer B. Stants, Comptroller General

Organization Concerned: Department of the Navy, Department of Defense: Department of the Navy: Office of Naval Potroleum and Oil Shale Reserves.

Congressional Relevance: Rcs. John E. Moss.

Authority: Supplemental Association (Act of 1974 (FL p. 23.45)) Benergy independence Act of 1975 S 594 (4bh Cose), H. R. 2650 (94th Cong.). Alaxia Statebaod Act (FL 15-105), SJ. Res. 174 (93rd Cose), H.J. Res. 47 (4bh Cong.). SL Res. 13 (94th Cose), H.R. 49 (94th Cong.). H.R. 5919 (94th Cong.). Public Land Order 1621. Basecutor Order 3707-A

The Nuvy's Office of Nuval Petroleum and Oil Shale Reserves (the Office) manages the Navy's petroleum manyos and for years has requested funds to further applore and develon them. For the most part, the requests have been denied and have not been submitted for appropriation consideration. Fludings/Conclusions: In reviewing the Office's requests, the Navy and the Denartment of Defense (DOD) have assumed that funds approved for the reserves would be at the expense of other Navy activities. Reasons given for deriving the requests were: the reserves were national resources and anereprintions for other Navy activities should not suffer; and there was no firm national policy on the reserves. A lack of funding has delayed development of the reserves and the canability of penduring large quantities of oil for an emergency. Funds for exploration and deveforment at Petroleum Reserve No. 1 in California and Reserve No. 4 in Alaska have recently been made available by the Congress. Proposals have been made to produce oil from the reserves to inproate the amount of domestic oil available to meet current fuel meeds and reduce future reliance on foreign sources. A Federal Energy Administration report did suggest the alternative of production from the Navy's reserves. Leases continue in effect on Federal land around the reserves.

221

[Federal Coat-Leasing Program of the Department of the Interior]. RED-76-26A; B-148623. October 15, 1975. 1 pp. + enclosure (9 pp.)-

Report to Rep. Henry S. Reuss; by Elimer B. Staats, Comptroller General.

Organization Concerned: Department of the Interior. Congressional Relavance: Rep. Henry S. Rossa.

Authority: Freedom of Information Act (U.S.C. 552(b)). Clean Air Act, as amended (P.L. 91-604; 42 U.S.C. 1857). Mineral Lessing Act (30 U.S.C. 184).

The Pederal coal leasing rogram is administered by the Deparment of the factoria, Gaussican bave been mixed about coel reserve estimates, coal production trends, production and reserve data on Pederal Jesses, and the monitoring of Pederal Jesses. A Miningr/Onclamister GAO accepted the 1574 Diaress of Mines estimate that the demonstrated coal reserve was 434 Minio tours. These 434 tons are not accessibly recoverable. They figure in the Insteir Departmently selfance of 3,344 Minio tours. These Ministry of Ministry Ministry Ministry and selfances of 1,344 Minio tours. These Ministry of Ministry Min

Energy Digest SEPTEMBER 1977

recoversible coal ranging from 21.7 to 255 task. Muniting in weathers Starts in increasing for several ransare, including acts of mining and low unipher content. As of Desenter 3.1, 1974, 785,200 seres of Peterlan flav ever beach containing glava to 1880 into team of recoverable cost, and production has increased in recens years (20,53),000 trans (1974). A table tists had 51 langest actes and grouperstage particular targe on persone acceptional in ethy or properities provide the set limits of 4,040 acres is coal tasks and grouperstage particular targe on persone acceptional in ethy or monitor arrange initiations can quarterly balan for compare this into (1200).

222

[The Goulgial Survey Development Action as Recommendations Concorning Impetition and Regulation of Outer Conditional Solid Oil Operations]. RED-17-44; B-140333. November 21, 1073. 2 pp Royari to Rep. William S. Moethaed, Chairman, House Committee on Government Operations. Conservation, Brategy and Natural Resources Subcommittee; by Robert F. Keller, Aering Comptroller General.

Orgonizotion Concerned: Geological Survey.

Congrational Relevance: House Committee on Oovernment Operations: Conservation, Energy and Natural Resources Subcommittee.

The Goological Survey has taken inadequate action on the following recommendations: (1) that the Steretary of the Intrader require the Goological Survey to have instructiones covering partial inappetients of antiling opermients and impection of remulsi and shaudhow meet operations, and could be the Goological Survey be required to inster equilatory orders to control creation, worksver rad witeling operations, and oreating control creations from an ingite structure.

Rindings/Conclusion: The Geological Survey gives instructions to the tochnicians on a continuing basis during day-to-day inspections, and inspection achediates for these types of operations are established as nooded within the operations framework. Written guidelines would provide generative research takin inspection achievities were baing administered and reported uniformly. The regulation changes would not be finalized and part into effect unit large types. (Author (MA)

223

[Development of Poleral Coal Resources]. March 26, 1976. 13 pp. Tentimony before the House Committee on Introise and Insular Affairs: Mines and Mining Subcommittee; by Phillip S. Hughes, Assisant Comstreller General.

Orgonization Concerned: Department of the Interior. Cooperational Relovance: House Committee on Interior and Insular Affairs: Mines and Mining Subcommittee. Authority: Mineral Leasing Act of 1920.

A GAO study on Federal cost leasing addressed questions of the need for new leasans and the ability of the Department of the Interior to administer a leasing program. The Denartment of the Interior decided to lift a monstorium on coal leasing without assessing the potential contribution of Federal lands toward meeting the national goal of doubling yearly coal production by 1985. Attempts should be made to: (1) better identify the amount of coal under lease and prospecting permit; and (2) relate the amount of Federal coal required to meet national goals to programs of renewed leasing. Lessees should furnish information related to holdings and production plans. Program administration of the Department's new Jeasing process has improved, but further improvements are necessary. Weaknesses were found in the coel resource matoing program, in drilling programs, and in the land management plansing system, Recommend were made to the Secretary of the Interior to correct these weaknesses. The Department proposed regulations designed to improve production on Federal leases, did not go far enough. Action by Congress was suggested to allow for more frequent adjustment of losse terms, and amendment of the Mineral Leasing Act of 1920 was proposed to provide for competitive award of leases and for insurnor of nonexclusive prospecting permits, (HTW)

Department of the Interior Study of Shut-In Oil and Gar Well Completions and Leases-GAO Obstructions. RED-76-90; B-178205. March 30, 1976. 2 pp. + 2 appendices (12 pp.).

Report to Sen, Alan Craeston; Sen. Ernest F. Hollings; Sen Warren G. Magnason; Sen. Frank E. Mosa; Sen. Adlai E. Stevenson; Sen. John V. Tunney; by Elmer B. Staata, Comptrollor General.

Organization Concernade Department of the Interior; Geological Survey,

Congressioned Rolovence: Sen. Alan Cranston; Sen. Ernesa F. Hollings; Sen. Warren G. Magnusot; San Frank E. Moss; Sen. Adlai E. Stevenson; Sen. John V. Tunney.

On January 22, 1975, the Secretary of the Interior instructed the Geological Survey to study Outer Continental Shell (OCS) shut-in well completions and leases in the Gulf of Mexico. The study focused on the following areas; shut-in oil and gas well completions; nonproducing leases with qualified producible wells: certain nonproducing lesses with ass reserves; and unexplored primary-term lesses (5 year) with no drilling operations for 2 consecutive years Findians/Canclusions: The summary of operators' reasons for shut-in completion indicated that 94 well completions were plugged or were awaiting plugging operations because they had produced oil or gas to their economic and/or physical limits. Most of the remaining 60 well completions were shut in pending completion of a pipeline connection or were awaiting additional work to restore production. Study of 137 completions for recoverable reserves indicated: 34 completions with possible are reserver; 19 completions with possible oil reserves: and \$4 completions with no reserves. Geological Survey Officials plan to institute a reporting system in June 1976 to identify shot-in well completions on a quarterly basis. Study disclosed that 2 of 17 shot-in leases reviewed were producing, I was in the midst of an intensive development program, 2 were reliaquished, and 12 were allowed to retain their leases for longer periods. Geological Survey officials said they lack the staff to verify each set of justifications for suspension-of-production submitted by lessees. (Author/QM)

225

Indian Natural Resources-Part II: Coal, Oll, and Gaz-Better Montagement Con Insprove Development and Increase Income and Employment. RED-76-84; B-114868. March 31, 1976. 39 pp. + 1 appendix (2 pp.).

Report to Sen. Henry M. Jackson, Chairman, Senate Committee on Reterior and Insular Affairs; by 21mer B. Statts, Comptroller General.

Organization Concerned: Bureau of Indian Affairs; Bureau of Mines; Department of the Interior: Geological Survey.

Congressional Rolevoera: Sense Committee on Interior and Insular Affairs.

Authority: Indian Solf-Determination and Education Assistance Act of 1975 (P.L. 53-638), Indian Reorganization Act of 1934 (25 U.S.C. 466), P.L. 93-580, 25 U.S.C. 396, 25 C.F.R. 171, 25 C.F.R. 172, 25 C.F.R. 177, 25 C.F.R. 183.45.

Coal, oil, and gas are valuable resources that provide Indians with income and job opportunities which will increase as resources are further developed. Indian income from oil and sas in fiscal year 1974 amounted to about \$43.1 million, Indian income from other minerals, including a large amount from coal, amounted to about \$9.6 million during the same pariod. Findings/Caschurber: The Bureau of Indian Affairs (BIA) has placed limited emphasis on developing Indian cash, oil, and gas resources. For example: the amount of resources on most reservations is unknown: planning for minerals resource development has not been adequate; BIA does not have sufficient personnel with minerals expertise; and information on experfonce sained during minerals development has not been exchanzed among BIA field offices, Indian employment in the mineral industry was substantially higher on those reservations that had eptablished specific requirements for Indian preference in hiring and followup procedures. Thirteen of the 16 Indian coal lenses reviewed had fixed coyalty rates and, therefore, the income per ton produced did not rise during periods of sising cosl prices. The Geological Survey has not adequately fulfilled its responsibilities for mineral resource development on Indian reservations. Reconversions The Secretary of the Interior should direct the Commissioner of BIA to: develop complete minerals investories for all reservations; develop mineral management plans taking into consideration the wishes of the Indian people; determine the mineral expertise staffing BIA needs and take steps to meet them: establish procedures to exchange and distribute between area and agency offices information relating to experience asined by the tribes in developing mineral resources; update and maintain BIA's operations manural; establish specific requirements in all Induse mineral leases for Indian preference in hiring: establish procedures to insure that such preference provisions are bring followed: establish a coal-lease royalty rate policy based on a percentage of the selling price of coal; determine whether the 2,560some limitation and the criteria for exceeding it are valid; and insure that the Bureau's lease files are adequately documented. The Direcfor of the Goological Survey should establish penalty fees and require reports from lessees. (Author/QM)

226

Bale of Federal Coal Resources in Meeting Energy Goals Needs to Be Determined and the Leasing Process Improved. RED-76-79; EN200-. April 1, 1976. 64 pp + 4 appendices (5 pp.).

Repart to the Congress; by Eimer B. Stasts, Comptroller General.

Organization Concerned: Department of the Intuior, Buresu of Land Management; Geological Survey.

Contrassionel Reinurenza: Contress.

Authority: Mineral Lands Lessing Act (30 U.S.C. 181). Mineral Lessing Act for Acquired Lands (30 U.S.C. 351). Clean Air Act, as amended (P.L. 91-604; 42 U.S.C. 1857) 30 U.S.C. 207. 30 C.F.R. 200.

The Administration's goal is to double present national yearly coal production by 1985. Because of its large holdings of low-sulfur coal, the Federal Government is in a key position to shape future patterns of cost development. Most of the cost lands are administered by the Department of the Interior and may be leased to mine coal. Under a new leasing process, the level of lease offerings would be determined by bidding results in competitive lesse sales. Lesse sales, if environmentally acceptable, would be offered as long as bids were sufficiently high. Findings/Coaclusion: Reliance on the new lessing process places the Department of the Interior in the position of reacting rather than providing leadership needed to develop sound national energy strategy. Much remains to be dont before the new leasing process can be applied effectively on a large scale. Weaknesses exist in the Department of the Interior's coal resource map ping program, in drilling programs to obtain data for mineral classification and environmental protection, and in the land management planning system. There is a lack of information to make reasonsbly sound valuations of coal lands and leased coal. Coal-leasing regulation improvements are needed concerning: production standards for leases; adjustment of lease terms; assignment of leases; and coal exploration. Improvements are also needed in the preparation for and the administration of a coal-leasing program. Recommendations: The Congress should enact legislation that would: permit adjusting terms of future lesses more frequently than after a 20-year primary term; and amend the law to provide for the award of leases only on a competitive basis and issuence of prospecting permits under which persons could explore for cosl for commercial purposes but have no exclusive rights to leases. The Department of the Interior should: specify what demands will be placed on Federal coal resources in meeting production goals; establish a leasing schedule to indicate the timing and magnitude of lease spice; develop a synternatic coal-drilling program to provide data for appreising coal resources and provide planned and coordinated deiling through federally financed activitics; require existing and potential lesses to furnish information on reserve headings, production plans, reasons and justifications for nonproduction, and the need, if any, for additional Federal coal reserves; and award lesses only on a competitive basis. (QM)

Management of and Plans for the Noral Petroleum Reserves. LCD-76-313; B-66927. May 14, 1976. 21 pp. + 5 appendices (33 pp.). Report to the Congress; by Elmer B. Staata, Comptroller General.

Organization Conternad: Department of the Navy

Congressional Relevance: Congress. Authority: Naval Petroleum Reserves Production Act of 1976 (P.L. 94-255). Armod Services Procurement Act of 1947. 10 U.S.C. 641 H. Rett, 8-942.

By law the Newy has had custody of Rederal lands containing large reserves of netroleum and thomsands of some of eil shale. Findingr/Cenclusion: Under meent insidation, remonsibility for costody and exploration of the largest reserve (No. 4. North Slope, Alaska) was shifted from the Navy to the Department of the Interior Reserves Nos. 1 and 3 (Elk Hills, California, and Teapot Dome, Wateriet) will be more fully developed at a cost of \$535 million reising production to over 400 000 herrels a day. No. 2 (Buena Vista California) Reserve is almost depleted, and No. 4 and the oil shale reserves are undeveloped. At No. 3, the Navy recently started to systemically test oil wells and solve problems detected and has requested proposals for a new operator contract. In the past, Navy prozurement for the reserves did not always accord with that used by the defense agencies or ensure that the Government's best interests were being served, because it did not always follow the relevant intent of the Armed Services Procurement Act annlied to all ettra chases of supplies and services, including contractors who operate the centry at the New shaddlers The Secretary of the New shaddestablish contracting procedures which conform to the policies and procedures of the Procurement Regulations: review the menutly awarded contracts to operate reserves Nos. 1 and 4, and modify them if necessary to accord with procurement regulations; and comply with the newly established contracting procedures for the new operator contract at reserve No. 3, (DJM)

228

[Department of the Interior's Procedures for Approxing Coal Mining Plens]. EMD-76-6; B-113678, July 20, 1976. 5 pp.

Report to Rep. Passy Mink, Chairman, Honse Committee on Interior and Insuira Affaire Mines and Mining Subcommittee; Sen. Lee Mocalf, Chairman, Seraite Committee on Interior and Insuira Affairie Minerals, Materials and Fuels Subcommittee; by Elmer B. Staats, Comptrollee Centeral.

Organization Concerned: Bureau of Land Management; Department of the Interior; Geological Survey.

Congrussional Relavances: Hours Committee on Interior and Insular Affairs: Mises and Mining Subcommittee; Seware Committee on Interior and Insular Affairs: Minerala, Materials and Puels Subcommittee.

A review of the Department of the Interior's approval process for coal mining plans focused on six mining plans approved since Octo-ber 31, 1975. Fladings/Conclusion: Lessons must submit mining plans that detail reclamation and environmental protection measures before mining on public lands. Any major environmental impact must be treated in an environmental impact statement. The mining plan is submitted to the Area Mining Supervisor who makes a technical review. A Federal surface management agency (such as Forest Service or Bureau of Land Management) also reviews the plans. At the same time, a multidisciplinary, multiagency (Federal and State) environmental analysis is prepared to determine the need for an environmental impact statement. If approved, the plan sors through five offices/divisions and at each level stigulations can be added. After approval by Aasistant Secretary, Energy and Minerals, it reverses its upward flow and returns through channels back to the Area Mining Supervisor who notifies the lesses of approval. In four cases, however, sporoval from the Assistant Secretary was communicated by phone, not by the process outlined, in order to lift legal injunctions by the courts on a timely basis. The approval letter contained a number of modifying stipulations dealing mainly with the method of operating and reglamation and compliance with various regulations and requirements. (DJM)

29

An Evaluation of the Federal Power Commission's Rulemaking on Utilities' Construction Work in Progress EMD-77-7; B-180223. December 2, 1976. Released January 17, 1977. 5 pp. + approxis (19 pp.).

Report to Rop. John E. Moss, Chairman, House Committee on Interstate and Poreign Commerce: Oversight and Investigations Subcommittee; by Ejner B. Stats, Comptroller General.

Organization Concerned: Federal Power Commission

Congrassional Relavance: Houre Committee on Interstate and Poreign Commerce: Oversight and Investigations Subcommittee.

GAO was asked to review a proposed Federal Power Commission rule to allow natural gas and electric atility comparies to include construction work in progress in their bases for computing rates.

Budguz/Catesiakow The relevantia, even deas not appear to even deparative the propers the Commission cignilosy environtion of the second second second second second second second controller second. Note importantly, the relevantia, and this controller second. Note importantly, the relevantia second second

230

Rational Exploration and Development of Outer Cavilarneal Shelf Recordsong), March 7, 1977. 10 pp. + 2 enclosures (4 pp.). Testmory before the House Solett Committee on Outer Constituential Shelf; by Monte Cassifield, 3r, Director, Energy and Minerals Div.

Organization Concessed: Department of the Interior.

Congressionel Relavence: HouseSelect Committee on Outer Continental Shelf.

Authority: H.R. 1614, § 208 (95th Cong.).

improved policies and procedures are needed for the rational evoloration and development of the Orster Continental Shelf (OCS) resources. An assessment of the first frontier sale - OCS Sale 35 off the California coast - revealed that the Department of the Interior's tract selection and evaluation process was not reliable, and bidding was not annotally competitive. In addition, the prevelease tract evaluation used in making account/reject decisions on industry bids were based on incidentate data. The Department's current revenue. estimating process for OCS sales is based on inadequate information; it often includes overly optimistic estimates; and it relies on various errors to cancel each other out and vield a reesonable estimate. Under the present lessing system, the Federal Government is frecountly committed to lease before it has sufficient information to make intelligent choices. The Department of the Interior should: direct a geological exploration program which would provide for the systematic development and implementation of a plan for appraising OCS oil and sas resources, encourage private industry to conduct the drilling identified in the plan, and take necessary steps to encourage Industry to obtain further information after the tract selection process is completed, and offer for lease sale only those areas for which sufficient information has been collected and analyzed. (RRS)

23

Outer Continential Sheff Sale #35: Problems Selecting and Evaluating Land to Lease EMD-7719; B-118678. Marcin 7, 1977. 45 pp. + appendices (22 pp.). Report to the Congress; by Robert F. Keller, Asting Comptroller General.

Organization Concerned Department of the Interior; Office of Management and Bodget.

Congressional Relevances House Committee on Interior and Involar Affairs, Senate Committee on Interior and Insular Affairs; Congress. Authority: Outer Continental Shelf Lands Act (43 U.S.C. 1331). S. 9 (95th Cong.). H.R. 1614 (95th Cong.). S. 521 (94th Cong.).

A review of practices in lessing Outer Continental Shelf (OCS) lands for oil and gas development concentrated on tract selection and methods for catimating revenues. The Department of the Interior has leased a total of about 12.5 million acces in 21 years through competitive offerings, with resulting revenues to the Federal Government of nearly \$16 billion. Findings/Cosciasions: After the oil embargo, accelerated lessing led to speculation and isopardized the Government's role in protecting the public interest. For OCS Sale #35. tracts were aclected for leasing without adoutately assessing their resource potential. Prolease tract evaluations were made using inadequate data. Revenues to be received were overestimated because of Inadequate information and overentimistic estimates. Recommendations: The Secretary of the Interior should (1) direct a geological program to appraise OCS eil and gas resources; (2) encourage industry to share information an explorations with the Department; and (3) offer for lease only areas analyzed through sufficient information. Congress should act favorably on proposed legislation providing for a leasing program to meet national goals and assure receipt of fair market value for oil and gas. (HTW)

222

Improved Polacies and Procedures for the Exploration and Development of Onter Continental Shelf Resources] March 15, 1977. 10 pp. + 4 enclo-

Testawony before the Senate Committee on Energy and Natural Resources; by J. Dester Peach, Deputy Director, Energy and Minerals Div.

Congressional Relevance: Senate Complete on Energy and Natural Resources.

A platned and systematic approach to the leasing of the nation's Outer Continental Shelf (OCS) resources as needed if hydrocarbon production in frontier areas is to be maximized in a manner consistent with environmental and other values. A GAO assessment of the first frontier value (OCS Sale 35 off the California coast) has demonstrated that (1) the Department of Intenor's tract selection and evaluation process were not reliable, (2) the bidding generally was not competitive; and (3) the prelease tract evaluation used by the Department in making accept/reject decisions on industry bids were based on inadequate data. The need for sufficient data is critical not only for selecting and valuing tracts to determine the fair market value for leased lands, but also for identifying where to lease so that domestic oil and gas penduction can be increased in the near future. The Denastment should undertake a systematic exploration program to collect data on previously usexploond frontier areas. Such an exploration would also inverses the Department's revenue-estimating process and provide the neitor with a better knowledge of the total OCS resource potential. The Department should also encourage private industry to conduct the dolling and share the revoluing information with the Department on a confidential boost. The Department should offer for losse sale only those areas for which it has sufficient information to identify the resources' location, estimated value, and noterinal for development, (LDM)

Domestic Energy Resource and Retern Estimater-User, Limitations, and Needed Date. EMD-77-6; B-178205. March 17, 1977. 35 pp. + 5 appendices (21 pp.).

Report to the Congress; by Robert F. Keller, Acting Comptroller General

Opposization Concerned: Depertment of the Interior: Energy Research and Development Administration: Poleral Energy Administration.

Congressionel Relavance: House Committee on Interstate and Foreign Commerce, Sensie Committee on Bnergy and Natural Resources: Constras.

Authority: Bnergy Policy and Conservation Act (42 U.S.C. 6201 (Supp. V)). Baergy Conservation and Production Act (P.L. 94-385). Mining and Minerals Policy Act of 1970 (30 U.S.C. 21a). Energy Reorganization Act of 1974 (42 U.S.C. 5801 (Supp. V)). Federal Energy Administration Act of 1974. Energy Supply and Environmental Coordination Act of 1974, Pederal Water Power Act, Natural Gas Act. Pederal Cosl Leasing Amendments Act of 1975. 43 U.S.C. 31. 30 U.S.C. 1. 15 U.S.C. 761 (Supp. V). 15 U.S.C. 717. 16 U.S.C. 791. 15 U.S.C. 772(f) (Supp. V)

The usefulness of resource and reserve estimates of the Nation's primary energy fuels, including oil, gas, goal, and uranium, can be greatly improved. These estimates are prepared and reported on by Federal spencies. Findings/Conclusions: The estimates propared have been an attempt to measure the potential short- and long-term domestic supplies of these fuels. Review of the reported energy resource and reserve estimates demonstrates that there is a need for more data to assess resources and reserves and a need for more reliable resource and reserve estimates. In order to increase the asofulness of reserve estimates for decisionmaking purposes, information is needed on the effects of cost-price relationships on energy source recoverability. Recommendation: The Secretary of the Interior should direct a geological exploration program which would provide for the development and implementation of a systematic plan for appraising Outer Continental Shelf oil and gas resources. The Bacryy Research and Development Administration should espedite the work and report of its National Uranium Resource Evaluation Program. The Admonistrator of the Federal Energy Adstinistration should obtain additional information concerning the effects of cost-price relationships on the recovery of energy rosources, the quantities of recoverable coal reserves, and the ownership and central over energy resources (Author/SC)

DO OUR DOMESTIC AND INTERNATIONAL ENERGY POLICIES ADEQUATELY REFLECT THE INTERNATIONAL AND DOMESTIC ENERGY SITUATIONS?

234

A Summary of European Views on Dependence of the Free World on Middle East Oil, B-178334. August 29, 1973. 19 pp. Report to Rep. Lee H. Hamilton, Chairman, House Committee en

International Relations: Burope and the Middle Bast Subcommittee: by Elmer B. Staats, Comptroller General.

Organization Concernad: North Atlantic Treaty Organization: Orgatization for Beenomic Cooperation and Development; Organization of Petroleum Exporting Countries

Congressionol Raisvonce: House Committee on International Relations: Europe and the Middle East Subcommittee.

House hearings concerning oil negotistions with governments of the Persian Gulf were planned for which European views on the following oil-related issues were sought: oil negotiations, issues, and the stability of supply; and the impact of Arab oil money on the international monetary scene. Findings/Conclusions: The energy crisis and increasing dependency on Middle East oil are real probless for both Europe and the United States, which cannot be avoided or greatly alleviated before the early 1980's. Immediate action is necessary to prevent the energy erisis from extending beyond that, Burepeans have adjusted to their historic dependency but are becoming more concerned, particularly over U.S. policy on the Middle East and energy. Cooperation among major oil-consuming nations is highly desirable but difficult to schieve. Middle East oil riches are an important factor in world financial markets and played a large role in the recent massive selling of dollars. Protection of value, however, not maliciousness, motivated the movement of oil wealth into other currencies. Accumulated oil weelth and the excess liquidity of major

ail-producing countries must be considered in any new international financeal arrangements. Both oil and oil-derived wealth are potential economic wappens of growing strength, although the solutal or threatened use of such weapons has been limited to date (Author/QM).

235

Issues Related to Fortign Saurces of Oil for the United States. B-179411 January 23, 1974 63 pp. + appendix (1 pp.). Report to the Congress, by Elmer B States, Comptreller General

Organization Concerned: Department of State, Organization for Ecotomic Cooperation and Development; Organization of Petroleum Expering Countries. Congressional Relevance: Coopers.

lasses relating to international petroleum supplies include: future availability of imports; agreements with oil-exporting and oil-consuming countries; outlets for monotary reserves of oll-exporting countries, and the role of the Department of State in negotiations between oil companies and producer countries. Findings/Canelanow: U.S. national policy on energy must be coordinated with U.S. foreign policy. The Department of State has not participated in a substantive way in negotiations between oil companies and produc-Ing countries. The Department has traditionally tried to use its influence to promote an environment conducive to U.S private investment abroad, but at the same time avoided direct involvement with private industry. The Department tried unsuccessfully to conclude agreements with Western Hemisphere producing nations for a continuing oil supply, but did not attempt such agreements with Eastern Hemisphere countries. It is clear from the results of recent negotiations between oil companies and producing nations, coupled with U.S. policy towards largel, that the U.S. has been left with a less secure supply of oil than before. Recommendations: In view of the highly volatile situation in the Middle East at the time of the report, GAO deferred specific recommendations. (DJM)

236

[The Purchase of Short-Supply, Energy-Related Items through the Export-Import Benk of the United States]. B-17E205. October 4, 1974. 2 pp. + enclosures (2 pp.).

Report to Sen. Lloyd M. Bontsen; by Elmer B. Stanta, Comptroller General.

Organization Concurnad: Export-Import Bank of the United States; Department of Commerces; National Advitory Council on International Monetary and Pasarelal Policies; Pederal Energy Administration.

Congressional Relevance: Srn Lloyd M. Bontson.

Neither the Federal Energy Administration (FEA) nor the Denortrotat of Commerce has attempted to maintain a list of officially designated short-supply items used in domestic energy activities. Both agree that energy-related items currently recognized as being in short supply are tubular goods (well caping and tubing, drill pipe, and line pipe) and drilling rigs. Findings/Conctanious: The Export-Import Bank of the United States (Eximbank), from June 10 to July 31, 1974, approved one transaction involving the expect of such short-supply items. The approval committed Eximbank to make a 7% loan of \$31,043,000 to help finance \$68,984,000 in exports to Algorin, consisting of 20 drilling rigs and 91 trucks. Before Esimbank approves an application for financing energy-related expects, it submits the proposed transaction to FBA and the National Advisory Council on International Monetary and Financial Policies (Council) for their review. FEA submits its recommendation to the Cosnell, which then decides by a majority vote of its members whether the transaction should be approved. Eximbank is not required to abide by the Council's decision. Eximbank only contacts other sgeneics through the Council, On June 31, 1974, Eximbank was considering 38 transactions involving potential exports of the short-supply items.

Subsequent to June 10, 1974, Eximitante had not made any commitments to finance energy-related equipment determined to be in sheet supply by FEA or the Council (Author/QM)

237

Economic Implications of Current World Oil Prices, 53 pp. Staff study March 1975

Organization Concerned Organization of Petroleum Exporting Countries

The four-fold increase in oil prices set by the Organization of Petroleum Exporting Countries (OPEC) is causing an unorecedented disequilibrium in international payments and corresponding transfer of wealth. Fladings/Conclusions: Major OPEC countries are unable to spend their accumulated financial reserves, which could reach \$650 billion by 1980 (World Bank figure). Possible outlets for oil revenues include: internal economic development; imports of enods and services, including military equipment and training; assistance to developing countries; and investments in other countries and private and international tostitutions. Foreign investment in industrialized countries has the greatest potential for using surplus oil revenues. The United States is attempting to reduce dependence on imported oil and is seeking to increase expects to OPEC countries. Consumer conservation may have some effect on our dependency on OPEC. The United States may involve itself more heavily in the international oil market. The future level of oil prices is uncertaine high oil prices may not be maintained indefinitely. Lower world prices would case the balance-of-payments financing proglems for oil importers. (DJM)

238

Allocation of Usuaian Euroburnet Services to Parl Foreign and Dowenic Nuclear Benetars, 10-75-45; B-181963; March 4, 1975; Relaxed May 21, 1976, 19 pp. + 5 appendices (6 pp.), Report to Rep. Thomas E. Morgan, Chairman, House Controlites on International Relations: br Emer B. Santa, Comparable: Gancal.

Organization Concerned: Entryy Resourch and Development Administration: Department of State.

Congrussional Relevantas House Committee on International Relations.

Authority: Atomic Energy Act of 1954 (42 U.S.C. 2011).

Recent Presidential commitments caused the Atomic Energy Commission (AEC) to aign provisional contracts to provide uranium enrichment services to fuel nuclear reactors in Egypt. Israel, and Iran. At the same time, the AEC was helding domestic requests for such services in abeyance. Findings/Conclusions: The demand for enrichment services at June 30, 1974, for executed and pending contracts was greater than available especity. As a result, all such long-term contracts were suspended except those with Egypt, Israel. and Iran. This deviated from the historical policy of access on a chronological basis for all buyers, and contracts with a number of foreign countries were abridged. Conditional contracts were offered to 45 foreign countries, depending on approval by the ABC for recycling platenium produced as a reactor byproduct as fuel. Foreign policy will be adversely affected if the United States does not execute these conditional contracts. The new AEC policy to terminate further long-term Government contracts together with the private sectee's lack of a firm commitment to build has introduced uncertainty as to future U.S. supply and may have encouraged the emergence of foreign supply sources. Consequently, the United States may lose significant balance-of-revments benefits from these sales, as well as the leverage that a dominant supplier has in international relations concerning nuclear policies and nonrealiferation of weapons. (DJM)

U.S. Financial Assistance in the Development of Poreign Nuclear Energy Programs. ID-75-63; B-181963. May 23, 1975. 5 pp. + 7 appendices (23 pp.).

Report to Rep. Themas E. Morgan, Chairman, House Committee on International Relations; by Elmer E. Statts, Comptroller General.

Organization Concerned: Atomic Energy Commission, Agency for International Development; Export-Import Eask of the United States; International Atomic Energy Agency.

Congressionel Relevances: House Committee on International Relations.

Avineity: Atomic Energy Act of 1954 (42 U.S.C. 2011). Foreign Assistance Act of 1974 (P.L. 93-559). H. Res. 1189 (93rd Cong.). H. Res. 1219 (93rd Cong.).

The United States may assist foreign countries in the development and utilization of stomic energy for peaceful purposes. Findinga/Covelations: Agrooments for the peaceful application of stonic energy are in offect with 29 foreign countries, the Internatotal Atomic Energy Agercy, and the Everopean Atomic Energy Community (EURAY Agercy), and the Everopean Atomic Energy Community (EURATOM). Since the beginning of the international program, the United States has exported billions of dollars worth of nuclear-related souds and services. As of June 1974, the annual export value of quotesr plants and related equipment was about \$1 billion. A number of fiespoisi arrangements under various programs of several Government sacrocies have been used for U.S. nuclear excorts. At present no single Government spency maintains financial information on an individual agreement basis for all nuclear exports, nor is information on private financial participation readily available within the Oovernment. However, a compilation on U.S. financial assistance is provided on an individual agency basis. International leading institutions have not been significantly involved in financing nuclear projects. U.S. Government financial assistance to foreign countries or international organizations has primarily involved the Atoms for Peace program, the Agency for International Development, the Atomic Bacry Commission, The Export-Import Bank, the Internstional Atomic Bacry Agency, and the Arms Control and Disamament Asengy, (DJM)

240

Role of the International Atomic Energy Agency in Safeguarding Nuclear Material. ID-75-65; B-181963. July 3, 1975. 34 pp. + 5 appendices (10 pp.).

Report to Rep. Thomas E. Morgan, Chairman, House Committee on International Relations; by Elmer B. Status, Comptroller General.

Orponizetion Concerned: Energy Research and Development Administration; Department of State; International Atomic Energy Agency.

Congressioned Relayance: House Committee on International Relations.

Authoritys Atomic Energy Act of 1954 (42 U.S.C. 2011). Atomic Energy Act of 1946.

The International Atomic Energy Agency (IAEA), an automomous Agency under the seals of the United Nations, administers an international nuclear safeguards program designed to detect diversion of nuclear materials for nonpeaceful purposes. Findings/Concluston: Membership in the IAEA does not obligate any of the 106 member countries to accept safeguards on its nuclear facilities. The Agency's safeguards system consists of material accountability, onsite inspections, and surveillance and containment devices such as cameras and seals. The principle is that the detection capability would deter a would be diverter. However, the scope and applicability of inspections are limited because the safogaards are designed to detect diversions on a national level only, do not include physical protection, and do not provide for detecting clandestine facilities or retrieving diverted material. Problems in administering and implomenting the safeguards system relate to: adequacy of countries' socountability records, need for better detection devices, equitable distribution of costs among members, and political problems and differing egreements with members. The real effectiveness of Agency

safeguants is not known. Effective safeguards depend largely an international goodwill. The question of whether U.S. interests are best served through bilateral or Agency safegunets is difficult to answer. (DJM)

241

Natural Gas Shortage: The Role of Imported Liquefied Natural Gas. 10>76-14; B-178205. October 17, 1975. 35 pp. + 3 appendices (10 pp.).

Report to the Congress; by Eimer B. Staats, Comptroller General.

Orgonization Concerned: Department of the Interior; Federal Baergy Administration; Federal Power Commission.

Congressional Relevence: Congress

Avisority: Natural Gas Act of 1938, as amended (15 U.S.C. 717-717w), Federal Energy Administration Act of 1974 (P.L. 93-273), Energy Reorganization Act of 1974 (P.L. 93-438).

Worldwide natural ass reserves are plottiful, but U.S. reserves have been declining since 1967 because new discoveries have not kent race with demostic production. Gas shortages have necessitated curtailment of deliveries and conservation efforts, and the shortage is sunscied to increase. Fladiago/Conclusions: Before alternative sources of energy can be developed, economic and environmental problems must be overcome. Increasing oil imports raises political economic, and national security questions. Deregulation of natural ass prices will have an uncertain effect on domestic gas production. Consumers' conservation measures have reduced overall gas use by about 5% but conservation alone cannot eliminate the shortfall. Probions associated with importing liquofied natural gas are: (1) its shortterm contribution to domestic supply will be minimal: (2) a capital investment of about \$11 billion may be required to construct the necessary tankers and receiving terminals; (3) the same risks on sociated with large oil imports exist; and (4) the cost of imports would add about \$4 billion annually to U.S. balance-of-navments outflow, (HTW)

242

[Role of the International Atomic Energy Agency in Safeguarding Nuclear Material], January 30, 1976, 16 pp.

Tenimary before the Senate Committee on Government Operations; by J. K. Pasick, Director, International Div.

Orgonizotion Concerned: International Atomic Energy Agency. Congenesional Relevances: Senare Committee on Government Operations.

The growth of nuclear power has focused attention on the potential diversion of nuclear material from peaceful activities to development of explosive devices. The United States initially established bilateral safeguards to prevent such diversion, but, since the inception of the International Atomic Bnergy Agency, has almost complotely phased out its bilateral program in favor of international referrards. Membership in the Agency does not obligate a country to nocept anfeguards, and there are limitations in scope and applicability of inspections. Saleguards are designed only to detect diversions on the national level with the assumption that terrorist groups will be dealt with by member nations. Safeguards do not include physical protection for transport of nuclear waste. The Agency does not have authority to seek out undeclared facilities or retrieve materials. Congressional committees and executive branch officials should consider: the need for expanding Agency responsibilities in physical protection of nuclear material; the technical and political limitations in applying Agency safeguards; the lack of strong penolties for diversion of nuclear material; and the desirability of proposing that the Agency publish an annual report related to amounts of nuclear materials subject to safeguards and unaccounted for during inspections. (HTW)

U.S. International Nuclear Safeguards Rights: Are They Bung Effectively Exercised? (Unclassified Degent). ID-76-21 February 9, 1976. Released May 3, 1977.

Report to the House Committee on International Relations; by Eliner B. Staats, Comptroller General.

Orgonizotion Concerned: Energy Research and Development Administration; Encopeta Atomic Energy Community; International Atomic Energy Agency

Congressional Relavance: House Committee on International Rela-

Agreements with foreign nations in which the United States supnies nuclear materials and facilities generally provide the United States with rights to make sure that these exports are not diverted for unauthorized purposes. Findings/Conclusions: The United States has been relying mainly on international safeguards applied by the European Atomic Energy Community (EURATOM) and the International Atomic Energy Agency. The United States has not taken adequate steps to insure effective implementation of these safeguards, and sufficient information was not supplied by the international organizations to determine effectiveness, EURATOM and the Agency have negotiated but not yet implemented an agreement providing for future Agency verification of EURATOM safeguards. issues relating to the reinstatement and continuation of U.S. saleguards rights were in need of elarification. These rights were considcred important as a fallback in case the Agency safeguard system collarges. Recommendations: Consideration should be given to: (1) developing methods for assuring the effectiveness of international safeguards; and (2) providing Congress with an analysis of bases for reinstating U.S. safeguards rights and clarifying possible confusion on extension of these rights. Representatives from the U.S. Intelligence community might consider providing a briefing on effectiveness of international versus U.S. bilateral safeguards. (HTW)

244

[The Exponentiation of Cont]. B-178205; OSP-76-17. April 14, 1976. 7 pp.

Ropert to Frank G. Zach, Admonistrator, Federal Energy Administration; by Monte Canfield, Jr., Director, Energy and Minerals Div.

Organization Concerned: Bureau of Mines; Goological Survey. Authority: Foderal Energy Administration Act of 1974 (P.L. 93-275), Trade Act of 1974 (P.L. 93-618).

Coal is by far the United States' most abundant energy resource, and it is expected to play an important role in the Nation's future energy picture. If past ocal export trends continue, the availability of coal for future domestic use could be limited. Findings/Concissione Most of the metallurgical coal exports are a type identified at low volatile bituminous cost, which, according to some users, is in critical supply. Users who depend upon this type of coal in their stoelmaking process feel that there should be a more detailed monitoring system than is currently being maintained by the Government. Department of Commerce officials, however, feel that there is insuffinient instification to obtain data beyond the present system. At the present time, Federal Energy Administration (FEA) data on coal exports are limited to that being compiled by the Department of Commerce. As a result, neither of the agencies can determine how much low volatile bituminous coal is being exported. Recommendanous: FEA should collect and maintain detailed information on transections involving coal exports. A sufficient sample of the transactions can be acquired by requesting the information from the 14 exporters who comprise 85% of the coal export market. This information should at least show exparts by the three categories of volatility to identify whether controls must be implemented.

45

Case the U.S. Breader Reactor Development Program Be Accelerated by Using Foreign Technology? RED-76-93; B-164105. May 6, 1976. 47 m. + 8 strengtions (95 m).

Report to Sen Habert H Humphrey, Chairman, Joint Economic Committee: by Elmer B. Staats, Comptroller General.

Organituation Concerned: Energy Research and Development Administration; Nuclear Regulatory Commission. Congressional Relevance: Joint Economic Committee. Authority: Freedom of Information Act (S U.S.C. 552).

Development of the liquid metal fast breeder reactor has been wen high priority by the United States, Britain, France, the Federal Republic of Germany, the Soviet Union, and Japan. Because of Isck of energy resources, most countries are operating on tighter time frames than the United States. Findings/Osyclasions: The approach of the Energy Restarch and Development Administration (BRDA) contrasts with that of other countries in emphasizing development of competitive industry and developing a technological base before building plants. The United States could profit from exchange agroements by obtaining increased data and information from other programs and sociding duplication. Factors impeding technology exchange include: foreign reluctance to furnish data of possible commercial value; foreign views that U.S. information will not be commercially valuable; concerns about the Freedom of Information Act; and possible U.S. problems related to balance of prymonts, dependands on fotbian energy sources, and licenting. Although some information has been exchanged, this will become increasingly difficult as programs approach commercial status. It is unrealistic to expect that the U.S. program could be greatly accelerated or that large amounts of money would be saved through eachanges. However, efforts in certain areas offering the most potential should be continued.

Recommendation: ERDA should seek legislation exempting data acquired through international technology agreements from disolosare provisions of the Preedom of Information Act. (HTW)

246

International Cooperation in Energy Research and Development. July 2, 1976. 13 pp.

Pretamony before the House Committee on Science and Technology Energy Research, Development and Demonstration Subcommittee by Phillip S. Hughes, Assistant Comptroller General.

Organization Concerned: Energy Research and Dovelopment Administration; Nuclear Regulatory Commission.

Congressional Relevance: House Committee on Science and Technology: Energy Research, Development and Demonstration Subcommittee.

Authority: Preedom of Information Act.

GAO work in international energy cooperation has dealt with sale of U.S. unnium enrichment services to foreign countries and the exchange of technology on breeder reactor development. In a report on uranium enrichment sales, concerns were extressed about the declining role of the United States in this area. A report on brooder reactors addressed the question of whether U.S. development could he secclerated by using foreign technology. The United States has had agreements to eachange technology and can benefit by obtaining increased data and information from other programs and avoiding dualication. Factors inteding technology exchange include: foreign reluctance to Jumish data of possible commercial value; concerns about the Freedom of Information Act: tighter time frames imposed in foreign programs; potential licensing problems; language difficulties: lack of travel funds; and national pride and scourity. Exolysing will become more difficult as programs approach commercial status, and it is unrealistic to expect that the U.S. program could be prestly accelerated or latte amounts of money could be streed through exchanges. However, efforts in areas offering the most potential should be continued. (HTW)

Assument of United States and International Controls over the Posceful Una of Nuclear Energy. 1D-76-60; B-181963. September 14, 1976-85 pp. + appendices (56 pp.).

Report to the Congress; by Elmer B Stants, Comptroller General.

Orgonizotion Concerneds Arms Control and Disatmament Agency; Energy Research and Development Administration; Nuclear Regulatory Commission; International Anonie Energy Agency; European Atomic Benergy Community. Coranassionel Relayonce: Conterns.

Awherity: Energy Reorganization Act of 1974 (P.L. 93-438). Atomic Energy Act. Export Administration Act of 1969. Executive Order 11902.

The development of nuclear technology in foreign countries is of concern because of the potential for nuclear weapons proliferation and dangers of theft and sabotage. Findings/Conclusion: United States and international controls over peacetime uses of nuclear enerey were found to be insdemate in many respects. In spite of U.S. offorts to seek improvements in international safeguards and physical security of nuclear materials, weaknesses exist in the effectiveness of international organizations in implementing safeguards. Some countries have not ratified the Treaty on the Non-Proliferation of Nuclear Weapons, Nuclear suppliers' efforts to achieve common export policles do not require Congressional ratification. International safeguards are designed only to detect diversions of nuclear material on a national level, and it is possible for a country to circumvent safeguards without sufficient information concerning their effectiveness. Action available to the international Atomic Energy Agency is limited if a country were to divert nuclear material from peaceful purposes. The United States is not reserving its rights as a fallback to international safeguards The " ", pescelul nuclear export liceusing and regulatory control program is fragmented among agencies.

Reconvendances The Energy Recurch and Development Admativariane, with the Department of Statis, should growide Coagress with an assumement of circumstances in which U.S. suffiguence could be address the statistical U.S. sufficient inplices and (1) statistical consensing decisions U.S. sufficient inplices with the Norther Regulatory Commission count, (1) statistical statisti

248

U.S. Muchear Han-Proliferation Policy: A Comparison of GAO and Executive Branch Positions. 1D-77-7. January 6, 1977. 2 pp + enclosure (9 pp.).

Report to the Senate Committee on Government Operations, the Senate Committee on Foreign Relations; the House Committee on Intermational Relations; Joint Committee on Atomic Energy; by Ehter B. Staata, Compteeller General.

Organization Concerned: Department of State, Nuclear Regulatory Commission; Energy Research and Development Administration; Department of Commerce.

Congressionel Rolavonce: Haur Committee on International Relations; Senare Committee on Pocelan Relations, Sonare Committee on Government Operations, John Committee on Atomic Energy.

A comparison we made of an Administration policy antennets on unders predictivities with a GAO expect "Assommer of U.S. and International Controls ever the Peacettal Uses of Nuclear Energy" ID-F66. There was general guestment as the need for more effective controls to curb nationer sequence predictions, but the acvert of the second second second second second second on the second second second second second second second designed to strengthen U.S. agreement for cooperation, segmeddesigned to strengthen U.S. agreement for cooperation, segmeddesigned to strengthen U.S. agreement for cooperation, segmed second s

Findings/Conclusions: Although the Administration statement took a positive approach by directing negotiations that would bring acidita gargements into conformity with international and new U.S. circline, the statement was not specific encopy. The Administration supported recommendations for upgrading adequarks, but diagreed with the need for uses of the proceedance for topported the respect controls, but legislation to this effect was not entered. Areas methods and the specific encourses of the spectra of the respect controls, but legislation to this effect was not entered. Areas methods by the spectra of the spectra of the spectra encourse of the spectra of the spectra of the spectra encourse of the spectra of the spectra of the spectra encourse of the spectra of the spectra of the spectra encourse of the spectra of the spectra of the spectra encourse of the spectra of the spectra of the spectra encourse of the spectra of the spectra of the spectra of the encourse of the spectra of the spectra of the spectra of the spectra encourse of the spectra of the spectra of the spectra of the spectra encourse of the spectra of the spectra of the spectra of the spectra encourse of the spectra of the spectra of the spectra of the spectra encourse of the spectra encourse of the spectra of t

Appendix 1

Federal Program Evaluations on Energy

Citations in this appendix are extracted from Federal Program Evaluations; a Directory for the Congress, (1976 Congressional Sourcebook Series) PAD-77-5, 1976.

Construction Dirition Tark Force Report on the Onthore Lange Management Program Study for the U.S. Genlopical Survey. A. D. Acuff, and others, May 1975, 120 pp. + appendicts

Authority: Mining Law of 1872 (30 U.S.C. 22). Mineral Leasing Act of 1920, ns amended (P.L. 86-705; 30 U S.C. 181), Mintral Lessing Act for Acquired Lands (P L. 80-382; 30 U.S.C. 351). Date Bosa Referenza: E-00712-008

This task force report on the 'Onshorn Lasse Management Program Study' recommends that 66 of the 79 National Aeronauties and Space Administration recommendations be fully adotted. [] be adopted with some change, and that only two recommendations not be adopted. Areas covered include objectives, policies, and procedures; organizations, personnel, and funding; management information systems, plans, controls, and commutications: training; inspection, enforcement, and supervision; regulations; operating ordars and technical standards: legislation and lease terms: fair market value; safety; environmental analyzes and statements; external relationships and additional task force monomorphations. Task force recommendations are related to division resource evaluation activities and a study of division organization.

250

Ouchore Lease Management Program Study for the U.S. Geological Survey

National Aeronautics and Space Administration. December 20, 1974 91 pp + appendices.

Authority: Mining Law of 1872 (30 U.S.C. 22). Mineral Lessing Act of 1920, as amended (P.L. 86-705: 30 U.S.C. 181), Minteral Lessing Act for Acquired Lands (P.L. 80-382: 30 U.S.C. 351). Date Bass Reference: E-03712-007

A study of the Onshore Lesse Management Program indicates a need for improvement in several key areas: policies, procedures, and technical standards; organization and staffing; plans and controls; management information systems; internal communication; personnel; inspection; enforcement; supervision of operators; legislation and regulations; fair market value; safety and other areas, including the use of helicopters, computer terminals, the assurance of ethical conduct, contracting for work, relations with other organizations, relationship with the Outer Continental Shelf (OCS) program, and burden of proof.

251

Reports of the Review Committee on Safety of Outer Continental Shelf Petroleum Operations to the United States Geological Survey]. George F. Mechlin, and others, Washington: Marine Eosed, National Academy of Engineering, 1974-1975.

Authority: Outer Continental Shelf Lands Act (P.L. \$3-212; 43 U.S.C. 1332).

Date Boxs Reference: E-00712-001, E-00712-002, E-00712-003

Three reports, each containing recommendations, were prepared on different aspects of the Roview Committee's work. The first report (Jan. 1974, 7 pp.) summarizes committee activities, which focused on five areas a technical review of selected draft standards and specifications, the application of system analysis techniques to offshore oil and gas operations; the U.S. Geological Survey (USGS) Safety Alert Notices System; extension of the Survey's OCS (Outer Continental Shelf) Order No 8 to include Caisson-type structures; and a preliminery lock at the conduct and planning for environmental baselings. The second report (June 1974, 20 pp.) focuses on three issees: policy and program planning by the USGS for the assurance of safety and pollution control in OCS petroleum operations; implementation actions and priority assignments by the USOS on the basis of safety study recommendations; and application of system analysis techniques to offichore oil and ass operations. The third report (Mar. 1975, 12 pt) emperns three topics: standards development for OCS operations; inspection strategies for use in the OCS; and methods for determining the condition of existing pipelines.

252

Reports of the Work Group on OCS Safety and Pollation Cantrol. W. A. Radlinski, and others, May 1973, 33 pp. + appendix, Supplements issued in 1974.

Authority: Outer Continental Shelf Lands Act (P.L. 83-212; 43 IIS.C. 1332).

Date Sasa Reference: E-00712-004, E-007(2-005, E-00712-006

This report provides the results of the U.S. Geological Survey (USGS) Work Group review of the findings of three studies on improving safety and pollution control in the management of Outer Continental Shelf (OCS) oil and sas operations. Each section contains the related recommendations from the three study reports, some remarks, the Work Group's recommendations and the implementation action required. Supplement number 1 (May 1974, 17 pp.) is a response to recommendations of the report "Energy Under the Oceans," a tochnological assessment of Outer Continental Shelf (OCS) oil and any operations. This report contains 39 recommendations. All of the recommendations, except those over which the U. S. Geological Survey has no control, are discussed in the supplement. The second supplement (November 1974, 12 pp.) is a remember to the pertinent recommendations of the report, "OCS Oil and Gaa-An Environmental Assessment," April 1974, which is the result of a study of the environmental impact of oil and gas production on the Atlantic Outer Continental Shelf and the Gulf of Alaska.

253

Review of Royalty Accounting System for Onshore Oll and Gas Leases. June 9, 1975. 106 pp. + appendix.

Authority: Mining Law of 1872 (30 U.S.C. 22). Mineral Leasing Act of 1920, as amended (P.L. 86-705; 30 U.S.C. 181). Mineral Leasing Ant for Acquired Lands (P.L. 10-382: 30 U.S.C. 351). Data Basa Rafaranca: B-00712-013

This report summarizes the deficiencies in the Geological Survey

Conservation Drussion Revalty Accounting System (RAS) for onabore dil and gas, and makes related recommendations. The principal reasons for the operational and procedural problems is a chronic understaffing problem: a staff increase of 37 positions is recommended. The following additional recommendations are made: (1) requirement of an established reporting dackage from each leases. including essential sale and production data, submission of nurchaser's report, and use of Federal lease identification numbers: (2) conversion of companies having the catability and volume to mannetic tape; (3) establishment of standard remutance advice; (4) various improvement to provide meaningful accounting records and statements of account, (5) establishment of standard procedures for ener correction and computer input, including recognition of persistent errors by companies; (6) establishment of procedures for monitorus and collection of delinquent payments, and meaningful penalties: (7) initiation of a policy of immediate response to late renords, and establishment of significant penalties, (8) emphasizing an annual nost-audit review of accounts, (9) application of all royalty payments directly to lease accounts; (10) provision of staff canability and expertise, especially a single production valuation team; and (11) various improvements dealing with operating inefficiencies in area accounting offices.

254

Rapily Accounting System Study of Solid Mineral Leasing Activities. August 11, 1975. 24 pp. + appendix

Authority: Mining Law of 1872 (30 U.S.C. 22). Mineral Leasing Act of 1920, as emended (P.L. 86-705, 30 U.S.C. 181). Mineral Leasing Act for Acquired Lands (P.L. 80-382; 30 U.S.C. 351). Data Base Reference. F-00712-014.

The report summarizes the definiencies in the Geological Survey Conservation Division revealty accounts system for solid mineral leasing activities, and provides recommendations for their immovement Except for ortain weaknesses is internal control, the system is procedurally adequate to account for and collect royalties on leasable solid minerals from Federal lands. The basic system for internal control over the accounting and collection functions is madequate to assure that all royalty payments are properly collected, dependent and recorded in the lease accounting records. Since one nerson in each office is solely responsible for this accounting, no system of checks and balances exists. It is recommended that collection, accounting, and billing of royalty receipts be separated in the offices. Division officers are not maximizing the use of the independent financial audit, a formalized package of andit report requirements should be established. Officials are not requiring all leasees to adhere to the royalty reporting and payment provisions of their lesses; struct enforcement should be maintained to avoid unnecessary interest expense. Revenue from the majoricy of Indian solid mineral leases has not been placed under any formalized system of accounting control. These leases should be placed under the control of the royalty accounting system.

Appendix 2

Requirements for Recurring Reports to the Congress on Energy

Citations in this appendix are extracted from Requirements for Recurring Reports to the Congress; a Directory issued by the Comptroller General for the period through June 30, 1976. (1977 Congressional Sourcebook Series) PAD-76.1. 1977.

DEPARTMENT OF COMMERCE

255

The Economic Impact of Energy Actions; Sandaunual Report (Joint Report with Department of Labor and Federal Energy Administration) Frequency/Due Date: Sandaunually / Unspecified.

Aganty Contest: Bureau of Domesite Commerce. (202) 377-4273. Congressional Ratiplent: Hence Committee on Interior and Insular Affairs; House Committee on Science and Technology; Sante Committee on Energy and Natural Resources; Joint Committee on Atomic Energy; Joint Economic Committee.

Authority: Foderal Energy Administration Act of 1974 (P.L. 93-275, § 18(d); 88 Stat. 111; 15 U.S.C. 777).

Data Bass Reference: R-00300-014

The report provides information on the impact of the energy hereage and selimon takes by the Pederal Baregy Administration regarding employment and the economy. The report contain recommentations on white additional Pederal programs for employment and economic assistance should be put into effect to minimize the impact of the energy horizon and any actions that takes. The report effects of the manifestory minimum allocations making any effects of the manifestory minimum allocation and prior explaintons, and devolps a conceptual immerses that will govern future reports.

256

Report to the Congress on Coastal Zone Management.

Frequency/Due Date: Annually / November 1.

Agency Contects National Oceanic and Atmospheric Administration. (202) 634-4257.

Congressional Recipients Houre Committee on Merchant Marine and Fisheries; Sense Committee on Commerce, Science and Transportation.

Authority: Coastel Zone Management Act of 1972 (P.L. 92-583, § 313(a); 86 Stat. 1288; 16 U.S.C. 1426(a)).

Data Base References R-00306-002

This report contains a summary of activities of the Office of Coastal Zone Management during the preceding fiscal year, detailing program developments and implementation.

DEPARTMENT OF THE ARMY

257

Solid Waste Management, Colloction, Dispatal, Resource Recovery, Recycling Program, DD-I&L(A)1436.

Fraquency/Due Date: Annually / Unspecified.

Agency Contact: Corps of Engineers. (202) 693-6458.

Congrassional Raciplem: House Committee on Armed Services; Smare Committee on Armed Services.

Autherity: (P.L. 93-552; 88 Stat. 1759).

Data Base Reference: R-00403-025

This report describes environmental improvement and energy conservation projects (involving recycling of materials) active at military campa, posts, and bases. The cost of these projects is limited to \$50,000/installation/year. (MN)

DEPARTMENT OF THE NAVY

258

Quarterly Report of Production from the Hanal Petroleum and Oil Skele Reserves.

Proquency/Due Date: Quarterly / 30 days after end of quarter. Agency Contact: Naval Petroleum and Orl Shale Reserves. (202) 692-0600.

Congressionel Recipiant: House Committee on Armed Services; Sevare Committee on Armed Services.

Authority: (P.1. 87-796, § 1(10); 76 Stat. 906; 10 U.S.C. 7434). Data Base Reference: R-00404-008

This report lists the quantity of oil, gas, gasoline, and other associated hydrocarbors, produced from Naval Petroleum and Oil Stale Reserver. Oross production is listed for California, including leased lends, Wyoming, Alaska; and Colorado.

259

All Parchases and Condemnation Proceedings Regarding the Naval Petroleum and Oil Shale Reserves.

Frequency/Ove Date: Annually / Unspecified.

Agency Contacts Naval Petroloum and Oil Shale Reserves. (202) 692-0600.

Congressional Becipients Hove Committee on Armod Services; House Committee on Interior and Insular Affairs; Service Committee on Armed Services; Services; Service Committee on Energy and Natural Retemucoa.

Authority: (P.L. 54-1028; 70A Stat. 458; 10 U.S.C. 7425(b)). Doto Base Reference: R-00404-017

This report provides data related to private lends on purchase and condemnation actions taken the provious year by the Secretary of the Navy, Rationale for purchase and/or condemnations is the conservation of navia percelsum and oil shale reserves. (MN)

250

Recycling of Manmais DDI&L(A)1436. Frequenty/Dua Date: Annualty / Unspecifical.

Agency Contact: Office of the Chief of Naval Operations. (202) 697-3689.

Congressionel Recipient: Hear Committee on Armed Services; Susan Committee on Armed Services.

Authority: (P.L. 93-552; 88 Stat. 1759).

Doto Basa Reference: R-00404-022

This report describes environmental improvement and energy conservation projects (involving recycling of materials) active at military earnys, posts, and bases. The cost of these projects is limited to \$50,000', missilation (year. (MN)

261

Protection of Gil Reserves; Contracts for Conservation.

Frequency/Dee Dote: Annually / Unspecified.

Agancy Contoct: Naval Petroleum and Oll Shale Reserves. (202) 692-0600.

Congressional Recipient: House Committee on Armed Services; House Committee on Interfor and Invalar Affairs; Sanate Committee on Armed Services; Sanate Committee on Energy and Natural Resources.

Authority: (P.L. 57-796; 76 Stat. 905; 10 U.S.C. 7424(b)). Data Base References R-00404-023

Energy Digest SEPTEMBER 1977

This report detoribes the Nava's efforts to conserve and percent nevel potrolourn and oil shale reserves by contracting with the sourcepriste persons to conserve the resources and to compensate them for estimated drainage in lieu of drilling and operating wells or by acquiring the property in eachings for stated reimbursements, (MN)

24.2

Annual Report to Congress on Naval Petroleum and Od Shele Reserves. Frequency/Dea Date: Annually / 1st day of fiscal year

Agency Contacts Neval Petroleum and Oil Shale Reserves. (202) 692.0600.

Congressional Recipient: House Committee on Armod Services; House Committee on Interior and Insular Affairs; Senate Committee on Armed Services; Senase Committee on Energy and Natural Ro-

Authority: Nevel Petroleum Reserves Production Act of 1976 (P.L. 94-258- 90 Stot. 311: 10 115 C. 7431(b)(c)) Data Base Reference: P.03404-024

This report concerns naval petroleum and oil shale reserves. It describes the status of exploration and development, production and proceeds from same, transportation facilities involved in projects related to the reserves, and a summary of future plans (MN)

DEPARTMENT OF HOUSING AND LIPBAN DEVELOPMENT

444

Report on Salar Energy Demonstration

Frequency/Dee Date: As required / Upon occurrence of event Agency Contacts Bureau of Policy Development and Research. (202) 755-5544.

Congressional Recipient: House Committee on Banking, Fanasco and Urban Affairs; Senate Committee on Banking, House, and Urhan Affairs

Authoritys Housing and Community Development Act of 1974 (P.L. 93-313, § 814; 88 Stat. 738; 12 U.S.C. 1701z-5(c)) Data Base Reference: R-00600-009

This report is to summarize solar merzy demonstrations carried out under the authority of Section 506 of Title V of the Housing and Urbas Development Act of 1970. It should also include information on the economic and technical feasibility of the project.

Special Report on Solar Heating and Cooling Demonstration Program). Frequency/Due Date: Annually / Unspecified.

Agency Context: Bureau of Policy Development and Research (202) 755-6442 Congressional Recipient House Committee on Banking, Finance

and Urban Affairs; Senate Committee on Banking, Housing and Urban Affairs Authority: Solar Heating and Cooling Demonstration Act of 1974

(P.L. 93-409. § 12; 28 Stat. 1076; 42 U.S.C. 5510(d)). Data Base References R-00600-010

This special report is to summarize all of the current and projected activaties of the various Federal agencies involved in implementing the Solar Heating and Cooling Demonstration Act of 1974. It is to present a comprehensive, overall view of the programs. The information contained in this report is duplicated in the Energy Research and Development Annual Report.

DEPARTMENT OF THE INTERIOR

Employee Disclotures under the Energy Policy and Conservation Acc.

Frances/Due Date: Annually (June 1 Agency Contect: Office of Audit and Investigation. (202) 341-5"4"

Congressional Recipiants Congress: House Committee on Interand Jossilar Affairs: Senate Committee on Baarry and Natura' F .

Authority: Engray Policy and Conservation Act (P.L. 94-14-14) Stat. 962: 42 U.S.C. 6392(b)(2))

Data Base Reference: R-00700-026

Certain employees of the Federal Energy Administration and of the Department of the Interior are required to file reports (b) ing any "knows financial interest" in some aspect of the coal, call call gas, or petroleum products business. This report deals with a ... disclosures and the actions taken, if any, in regard to the situat - aon

Community Data Summaries and Minard Estimates, MIN,C,V111 / Frequency/Dus Date: Aprovality / Licensei/Fed

Agency Contects Bureau of Mines. (202) 634-1263

Congressional Recipioni: Congress; House Committee on Appr pristions; Heare Committee on Interior and Insular Affairs, H. & # Committee on Ways and Means; Senate Committee on Appropria tions; Senate Committee on Energy and Natural Resources, Senate Committee on Finance; John Committee on Defense Prod. Authority: Voluntary

Dote Boss Reference: 8-00711-001

This report contains data sheets that provide information on the domestic materal industry structure, Government programs, tarif's and salient statistics for individual minerals, metals, and fuels Also included is information of domestic production and use, sup-it sources, depletion allowances, events, trends, and issues, world rla .: production and capacity; and world resources

267

Mining and Minerals Policy, MIN-C-33.

Frequency/Dus Date: Annually / Linspecified

Agency Centert: Bureau of Mines. (202) 634-8697.

Congressional Recipiant: Congress; House Committee on Internet and Iosular Affairs; Senste Committee on Energy and Natural Resources; And Committee on Defense Production

Authority: Miningand Minerals Policy Act of 1970 (P L. 91-631, 84 Stat. 1876: 30 U.S.C. 21a)

Date Bese Reference: R-00711-003

This report offers a brief overview of energy and minerals supplies, along with recommendations for action. The United States monally requires over two billion tons each of nonfuel mineral materials and fust minerals. Pactors influencing our energy, metals. and nonmetablic minorals are discussed, and include international aspects, national minerals inventory, mineral resources and reserves. environmental considerations, marine mining, health and safety transportation infrastructure, research and development, and others Trends and events are discussed for energy fuels, major nonferrous and forrous metals, fertilizer materials, and nonmetallic construction materials. The following recommendations are suggested for amplumentation by various Pederal agencies through reacheduling lose segont work to reprogram funds: 1) continued analysis of selected minerals to assess items of concern and impacts of potential shortages. 2) determination of alternate objectives for excess defense msterials, 3) continued improvement of data and analysis programs, 4) clarification of troublesome points in mining health and safety legislation and encouragement of production in arducus mining conditions, 5) removal of legislative and administrative distortions and encouragement of use of recycled materials, and 6) encouragement of private research and development.

Report to the Congress on Matters Contained in the Helium Art. MIN-C-37.

Frequency/Due Date: Annually / Unspecified.

Agoney Contach Bureau of Mines. (202) 634-4734.

Congrassional Recipient: House Committee on Interjee and Insular Affairs: Sesare Committee on Energy and Natural Resources.

Authority: Hellum Act (P.L. 86-777; 74 Stat. 923; 50 U.S.C. 167n). Data Bass References R-00711-006

This report contains information on the current status of the Government's helium program, including financial, statistical and enerating information. Specifically, the report requires information on helium conservation, production, and distribution; engineering studies and special projects; litigation; and belium program expenditures, income, and financial condition, us well as various statistical tables.

Refunds on Outer Continental Shelf Leaves, GRO.C.29. Frequency/Due Dotor As required / Upon occurrence of event, Agancy Contoct: Geological Survey. (703) \$60-7511. Congressional Recipient: House Committee on Interior and Insular Affairs: Sevele Committee on Energy and Natural Resources. Authority: Outer Continental Shelf Lands Act of 1953 (P.L. 83-212; 67 Stat. 469: 43 U.S.C. 1339(b)).

Data Base Reference: B-00712-002

The purpose of this report is to identify the recipients and the amount of refunds or credits proposed to be made to losses for overpayments under the Outer Continental Shelf Lands Act and to provide a summary of facts loading to the determination for the refunds or credits.

270

Exploration of National Petroleum Reserve in Alaska. GEO-C-118. Frequency/Dus Date: As required / Upon occurrence of event. Agency Contexts Environmental Conservation. (703) 860-7491. Congressional Recipients House Committee on Interior and Insular Affairs; Senate Committee on Energy and Natural Resources Authority: Naval Petroleum Reserves Production Act of 1976 (P.I. 94-258; 90 Stat. 305; 42 U.S.C. 6504(d)(2)). Data Bace Reference: R-00712-003

This report describes any new plans or substantial amendments to oracing plans for the exploration of national potroleum reserves in Alaska, It also includes an evaluation of anticipated effects of such plans or amondments. (MN)

Progress of and Future Plans for Exploration of National Petroleum Reserve in Alaska, OED-C-119,

Frequency/Das Date: Annually / October 1.

Agancy Contact: Environmental Conservation, (703) 860-7491, Congressional Recipient: House Committee on Interior and Insular Affairs; Senate Committee on Energy and Natural Resources Authoritys Naval Petroleum Reserves Production Act of 1976 (P.L. 94-258; 90 Stat. 305; 42 U.S.C. 6504(d)(3)).

Data Basa Rafarance: R-00712-004

This report describes the progress of and future plans for the exploration of national petroleum reserves in Alaska. It details such things as number of exploratory wells drilled and significant findings of petroloum resources. (MN)

272

[Compensatory Results Agreements]. BLM-C-3100-1.

Frequency/Due Date: Ancually / Beginning of congressional sesalon.

Agency Contact: Bureau of Land Management. (202) 343-7753. Congressional Recipient: House Committee on Interior and Insular Affairs: Senate Committee on Energy and Natural Resources.

Authority: Mineral Leasing Act Revision of 1960 (P.L. 86-705; 74 Sut. 753; 30 U.S.C. 226(g))

Doto Sose Reference: R-00714-003

This report contains information on compensation screements ontered into by the United States whenever lands owned by the United States are being drained of oil or gas by wells drilled on adjacent lands.

27.8

Grants of Rights-of-Way for Pipelines through Federal Lands. BLM-C-071

Frequency/Due Date: Annually / January.

Agancy Contact: Division of Lands and Realty, (202) 343-8738. Congressional Recipionie House Committee on Interior and Insular Affeirs: Senate Committee on Energy and Natural Resources Authority: Trans-Alaske Pipeline Authorization Act (P.L. 93-153; 87 Stat. 583; 30 U.S.C. 185(w)(2)).

Data Base References R-00714-007

This report is notification of a request for a right-of-way through Federal lands for a pipeline 24 Inches or more in diameter. It includes details recording terms and conditions of the granting of the right-ofway, (MN)

274

Contolidated Financial Statement of the Federal Columbia River Fower Sustem 1. BPA-C-64.

Frequency/Due Date: Annually / Unspecified.

Agenty Contact: Bonneyille Power Administration, (503) 234-3361.

Congressionel Recipient: House Committee on Interior and Insplar Affairs: House Committee on Public Works and Transportation; Senole Committee on Energy and Natural Resources: Smale Committee on Environment and Public Works.

Authority: Federal Columbia River Power System (P.L. 59-448; 50 Stat. 200; 16 U.S.C. 8350.

Date Base Referance: R-00718-001

This report presents a consolidated financial statement on a payout basis for the Federal Columbia River Power System, It demonstrates the ademacy of wholesale power rates by forecasting revenues, expenses, interest, and amortization for the next 75 years. Other factors considered are purchase and exchange power, investment placed in service, unsmortized investment, allowable unamortized investment, irrigation assistance, and cumulative aprolus revenues.

Annual Report on the Columbia River Power System, BFA-C-64A.

Frequency/Due Date: Annually / Unspecified.

Agency Contact: Bonneville Power Administration. (503) 234-3361.

Congressional Recipients House Committee on Interior and Insular Affairs: Hease Committee on Public Works and Transportation: Secare Committee on Energy and Natural Resources: Senate Committee on Environment and Public Works.

Authority: Voluntary,

Date Boss Referance: R-00718-002

This report provides information on legislation affecting the Bonneville Power Administration, as well as information on rate increases, system control, the Hydro-Thermal Power Program, other hydro projects, the transmission system, restarch and development, and operations. In addition, the report provides information on sabotage attempts and successes, energy conservation, environmental suits filed, power mies, statistics on opstomer growth, finances, and revenues and expenses, as well as statements of finances and expenses, assets and liabilities, and changes in financial position,

DEPARTMENT OF ILISTICS

Review of Voluntary Agreement and Plan of Action To Implement the International Energy Program

Frequency/Dos Dote: Semisonually / March 21; September 21. Agancy Contact: Antitrast Division. (202) 739-4173.

Congressional Resiptants House Committee on International Relations; House Committee on the Judiciary; Searche Committee on Foreian Relations: Senare Committee on the Judiciary

Authority: Energy Policy and Conservation Act (P.L. 94-163; 89 Stat. 871; 42 U.S.C. 6201).

Data Sase Raferance: R-00801-005

This report reviews actions of private industrial proups in complying with voluntary agreements made related to the conservation of energy. The agreements are intended to unplement an international energy program. The report includes information regarding the voluntary agreements as well as the groups' plans for action, (MN)

DEPARTMENT OF TRANSPORTATION

Annual Report of the Secretary of Thansportation on the Administration of the Natural Gas Pipeling Safety Act of 1968.

Frequency/Due Date: Argustly / March 17.

Agency Contocts Office of the Socretary, (202) 426-0135.

Congressional Recipients House Committee on Appropriations, House Committee on Government Operations: House Committee on Interstate and Portign Commerce: Senate Committee on Approprinticos: Sevate Committee on Commerce, Science and Transporta-

Authority: Natural Gas Pipeline Safety Act of 1968 (P.L. 90-481, 6 14; \$2 Stat. 728; 49 U.S.C. 1683).

Data Base References R-01100-007

This report summarizes the administration of the Natural Gas Pipeline Safety Act of 1968 and covers the Department of Transportation's related activities. The Act is administered by the Office of Pipeline Safety. Amendments to the Federal pipeline safety standards provide greater flexibility in qualifying pipe for use and facilitate the transport of pipe by rail, clarify the definition of a gas service line, and continue oderization of gas in certain transmission lines. Increased State participation is safety morenest was excounded through administration of grants-in-aid funds and increased training activity. Compliance activities were accelerated to assure that all operators subject to the Act meet safety standards and reporting requirements Research and study projects provided valuable technical information for Government agencies, the regulated industry, and the public. Pipeline safety information was disseminated through a monthly Advisory Bulletin and copies of all amendments, presentations of pipeline selety programs, and various information publications

118

Review of Average Fuel Economy Standards under Tale V of Mome Vehicle Information and Cost Sensings Act.

Prepagety/Due Dota: Annually / January 15

Agency Contacts National Highway Traffic Safety Administration. (202) 426-0846

Congressional Recipient: House Committee on Interstate and For-eign Commerce; Senate Committee on Commerce, Science and Transportation.

Authority: Energy Policy and Conservation Act (P.L. 94-163; 89 Stat. 902: 15 U.S.C. 2002(a)(2)).

Dota Sata Rafarence: R-01107-006

Congress has established a scale (by year) of average fuel economy required for passenger automebiles manufactured after model year 1977. This report reviews the requirements of the scale. esses manufactorers' ability to meet the standards for model year 1985, and contains recommendations for improving the furl economy program, (MN)

ENVIRONMENTAL PROTECTION AGENCY

Resource Recovery and Source Reduction, RINE700.021A.

Frequanty/Due Date: Annually / Unspecified.

Aganty Contact Office of Solid Waste Management Programs. (204) 254-7840.

Congressional Recipient: Houre Committee on Interior and Insular Affairs: Sesore Commettee on Environment and Public Works. Authority: Resource Recovery Act of 1970 (P.L. 91-512, § 104(a); #4 Stat. 1229: 42 U.S.C. 3253(a)).

Data Base Reference: R-02304-003

This report norments a reasing of the Agency's investigations of the utilization of material, energy, and products recovered from solid waste and the reduction in the generation of waste through a reduction in material or product consumption. Also included are discussinns about conservation of energy and material resources, protection of the quality of the physical environment, and economic effects. Chapters deal with projected trends in resource utilization, environmental pollution and solid waste contration that give impetus to consideration of resource recovery and source reduction meanuses; effects of existing Federal policies; markets for materials and energy recovered from post-consumer residential and commercial waste; product controls such as bans, standards, charges and deposits, directed at regulating the design or consumption of products; and studies of several special wastest automobile, peoksning, beverage containers, and rabber tires.

EXPORT-IMPORT BANK OF THE UNITED STATES

Submitteen of U.S.S.R. Fearra-Related Transactions for Conversional Review].

Frequency/Due Dote: As required / Upon occurrence of event

Aganey Contacts Expert-Import Bank. (202) 382-8400.

Congressionel Residents House Committee on Banking, Finance and Urban Affairs: Senate Committee on Banking, Housing and Urhan Affairs.

Authority: Export-Import Bank Amendments of 1974 (P.I., 93-666. § 5; 88 Stat. 2335; 12 U.S.C. 635(b)(3)).

Data Base Palaranza: 8-02500-002

The Board of Directors of Eximbank may not finally approve any loan or financial guarantee or combination which equals or expects \$25,000,000 for the export of goods or services involving research. exploration, or production of fossil fuel energy resources in the Union of Soviet Socialist Republics without submitting a detailed report to Congress describing and explaining the transaction. The report shall contain I) a brief description of the mirnoses of the transaction. the identity of the party or parties requesting the loan or guarantee, the nature of the ponds or services to be exported, and their intended use, and 2) a full explanation of the reasons for Bank financing of the transaction, amount of the loss to be provided by the Bank, approximate rate and repayment terms, and approximate amount of the Rusrantee.

FEDERAL ENERGY ADMINISTRATION

Manthly Energy Resides. Frequency/Due Date: Monthly / Unspecified. Assessy Centect: Office of Policy and Analysis. (202) 254-8705.

Conservational Parinteet: Conserva-Authority: Voluntary

Data Base Referance: R-01900-001

This errort contains current time-series data and araphical disniave of production and consumption of major sources of energy in the United States. Data are included on crude oil, natural gas, refined petroleum products, coal, fuel oil, assoline, heating oil, and elecmain

282

Federal Energy Guidelines, Weekly Sapplement, Frequency/Dup Data: Weekly / Unspecified.

Agency Contact: Office of Policy and Analysis (202) 254-3564. Congressional Recipient: Congress

Authority: Voluntary,

Data Base Reference: 8-02900-003

This report provides reliable, un-to-date information on the Fedoral Energy Administration's (FEA) energy pelloy and regulatory programs. It contains Federal energy laws, executive orders, FEA organizational outlines, regulations, rulings, forms, FEA advisory committees, exceptions, exemptions and appeals, and court decisions affecting the FEA program.

Energy Information Reported to Congress as Required by Public Law

Frequency/Due Date: Quarterly / Unspecified.

Agency Contact: Office of Policy and Analysis (202) 254-8705. Congressional Recipient: Congress.

Authority: Energy Supply and Environmental Coordination Act of 1974 (P.L. 93-319, § 11; 88 Stat. 262; 15 U.S.C. 796(a)).

Data Base Reference: R-02900-004

This report contains summaries and statistical information on energy resource development of coal, natural gas, crude oil, and refined netreleum products. A section dealing with the development and operation of nuclear energy and nuclear pewor plants is also konladed

Petroleum Market Skarez A Report on Retail Gaoline. Frequency/Dup Date: Monthly / Unspecified.

Agency Contact: Office of Policy and Analysis, (202) 254-7351. Congressional Recipient: House Committee on Interstate and Foreign Commerce: Senote Committee on Energy and Natural Resources.

Authority: Emergency Petroleum Allocation Act of 1973 (P.L. 93-159, 5 4: 87 Stat. 631: 15 U.S.C. 753).

Date Base Reference: R-02900-005

Based on a continuing national sample survey of gasoline service stations conducted by the Federal Energy Administration, this repost contains information on the assergate market shares of motor gaseling retailers. The following statistical tables are contained in the report- market shares of motor gasoline retailers; gallonage sales by marketer type: number of service stations and average sales by marketer type: and relative standard errors of sallonage sales estimates by percent.

285

Monthly Petroleum Statistics Report Fraquency/Dus Date: Monthly / Unspecified.

Aganey Contact: Office of Policy and Analysis, (202) 254-7903. Congressional Recipients Congress.

Authority: Voluntary.

Data Sasa Rafaresce: R-02930-006

This report contains data on production, import and stocks of orude oil, motor gaseline, jet fuels, and distillate and residual fuel oil. It also provides regional breakdowns of data on refinery operations and graphs of data on petroleum imports, crude runs-to-stills, heating ell stocks, motor gasoline stocks, refinery acquisition costs of crude oll, well-head prices of gasoline, home heating oil, and residual fuel.

224

The Federal Every Administration: Ownerly Report on Printle Gravcares and Radeer

Fraquency/Due Dote: Quarterly / Unspecified

Agency Contect: Office of Private Grievanors and Redress. (202) 254-5134

Congression of Recipients Congress

Authority: Federal Energy Administration Act of 1974 (P.L. 93-275, 5 21(c), 88 Stat. 113; 15 U.S.C. 781).

Dato Sosa Reference: R-02900-008

This report describes the nature and number of petitions for grievanoes and redrost filed with the Federal Energy Administration (FRA) by those adversely affected by morey shortages or FEA requlations. Summaries of decisions are listed alphabetically by company in the appandix. Dismissed cases are also listed in the appendix. grouped according to reason for dismusal. Decision summaries for single and consolidated decisions are included in the appendix.

Financial Discharges by Fundames Performing Functions under Energy Palicy and Conservation Act

Frequency/Dus Date: Annually / June 1.

Agenry Centert: Office of General Counsel. (202) 961-8001.

Congressional Recipient: Congress: House Committee on Interstate and Foreign Commercen Senate Committee on Energy and Natural Resources

Authority: Energy Policy and Conservation Act (P.L. 94-163: 89 Stat. 961: 42 U.S.C. 6392).

Doto Soaa Referance: R-02900-009

This report surveys financial disclosure of employees performing duties under the Energy Policy and Conservation Act. Possible conflicts of interest reported by employees in the Federal Energy Administration or the Department of the Interior are reviewed, and enforcement actions are noted. Disclosure provisions apply to employees enanged in Federal energy activities who are in the business of eaploring, developing, producing, refining, transporting, or distributing cost, natural gas, or petroleum products or who have interests in property from which coal, natural eas, or crude oil is commercially produced. (PR)

Action Proposed Concerning Conflict of Interest.

Fraguancy/Dua Dote: As required / Upon occurrence of event. Amaney Contact: Office of General Counsel. (202) 960-8001.

Congrassional Recipients House Committee on Interstate and Forsign Commerce: Senate Committee on Energy and Natural Re-

Authority: Federal Energy Administration Act of 1974 (P.L. 93-275(4)(1)(1)(A); 76 Stat. 1124; 15 U.S.C. 763(1)(1)(A)).

Data Sase Reference: R-02900-010

This report describes procedures for invoking exemptions from conflict of interest provisions for employees of the Poderal Energy Administration. A report which includes a detailed statement of the subject matter involved in the conflict; the nature of the employee's financial interest; or the name and statement of financial interest of each serson who will come within such exemption must be submitted te Congress 10 days prior to each exemption. (PR)

Strategic Petroleum Reserve Plan

Frequency/Due Dote: Annually / Unspecified.

Assney Contott: Strategic Petroleum Reserve. (202) 634-5540.

Congressional Recipient: Congress: House Committee on Interior and Insular Affairs: Senate Committee on Renerey and Natural Re-

Authority: Energy Policy and Conservation Act (P.L. 94-163; 89 Stat. 889: 42 U.S.C. 6245).

Data Base Reference: R-02901-001

This report describes the status of the Strategic Petroleum Reserve and summarizes the actions taken to develop and implement the Strategic Petroleum Reserve Flan and the Early Storage Reserve Plan. Included att an analysis of the impact and effectiveness of such actions on the vulnerability of the United States to Interruptions in the supplies of petroleum productions, a summary of existing prostams with respect to implementation of the Early Storage Reserve Plan and the Strategic Petroleum Reserve Plan and recommendations for supplemental logalation, (PR)

Federal Energy Administration Annual Report to the President and Congress

Frequency/Due Date: Annually / Linspecified

Agency Content: Office of Management (202) 961-8536.

Congression of Recipient: Congress

Authority: Federal Entrgy Administration Act of 1974 (P.L. 93-275, § 15(c); #8 Stat 96: 15 U.S.C. 774). Data Bass Reference: R-02902-001

This report desembes and analyzes the activities of the Federal Energy Administration (FEA). Chapter 1 comprises a review and analysis of the major activities in regulatory programs controlling pricing and allocation of crude oil, residual fuel oil, and refined petroleum products The goals of these programs are those of the Emergency Petroleum Allocation Act of 1973 The handships of these activities are to be shared as equitably as possible by the people of the United States. Three major regulatory programs are discussed in detail: Price. Resulations, the Oil Import Program, and Petroleum Allocation Regulations Chapter 2 seports briefly on energy supply key projections for the midterin and longterm for the major types of fuel. Chapter 3 contains a summary listing of all recipients of funds between November 1, 1973 and May 13, 1975. Cooperative agreements, interagency agreements, non-profit organizations, and profit organizations are covered for FEA-DOI swards, FEA pre-PRB review, and FEA post-PRB review Chapter 4 comprises a summary listing of information-gathering activities within PEA conducted under Section 13 of the FEA Act.

201

Exemption of [a Refined Petroleum Product] from the Mandatory Petroleum Allocation and Price Regulations.

Prequency/Due Date: As required / Upon occurrence of event. Agency Contact: Regulatory Program (202) 254-7200

Congressional Recipients House of Representatives. Speaker of the House ; House Committee on Interstate and Foreign Commerce; Sensor. President of the Sensor ; Sensor Committee on Energy and Natural Resources

Authority: Emergency Petroleum Allocation Act of 1973 (P.L. 94-163; 89 Stat. 951; 15 U.S.C. 760u(d)(2)).

Data Base Reference: R-02903-001

This report summarizes the findings which are necessary to support exemption of a refined peerolearn product from mandatory petroleum afforation and price regulations. Procedures for presenting orsi and written arguments for exemption are outlined, and limitstions on Presidential amendments to regulation are noted. (PR)

200

Entry Construction: Federal Energy Management Program. FEA-283-R-D.

Frequency/Due Dote: Quarterly / Unspecified.

Agency Conflect: Office of Conservation and Environment. (202) 961-7934

Congressional Recipient: Congress.

Authority: Presidential Durotis

Data Base Reference: 8-02504-001

This report summarizes the achievements of the Federal Energy Management Program. Detailed information showing performances of the individual participating departments and agenceles, and the amoticit and types of energy used and saved are contained in the accompanying tables and figures.

Federal Everyy Management Program Annual Report,

Frequency/Due Date: Annually / Unspecified,

Agency Contests Office of Boergy Conservation and Environment. (202) 961-7934.

Congressional Recipient: Congress: House Committee on Government Operations: Sensor Committee on Coveromental Affairs.

Authoritys Federal Energy Administration Act of 1974 (P.L. 93-275. § 15: 88 Stat. 109: 15 11.S.C. 774(e)). Data Sasa Referenze: R.02904.007

This report summarizes the activities and accomplishments of the Federal Energy Management Program. It shows the actual roduction of energy use by the largest Federal agencies, relative to an established goal.

Program of Energy Conternation Program for Consumer Products Other Than Automoteles

Frequency/Due Dote: Annually / December 22.

Agoney Contoch Assistant Administrator for Conservation and Environment. (202) 961-7068.

Congressional Recipients Congress; House Committee on Interior and Insular Affhirs; Senate Committee on Energy and Natural Re-

Authority: Energy Policy and Conservation Act (P.L. 94-163; \$9 Stat. 932: 42 U.S.C. 63083

Doto Boso Referance: R-02904-003

This report deals with efforts to educate consumers with respect to energy costs and conservation. Educational efforts are directed to the significance of estimated annual operating costs; the advantages of comparative shopping; and other matters which the Føderal Baergy Administrator determines may encourage the conservation of energy in the use of consumer products. Steps to educate consumers may include publications, audiovisual presentations, domonstrations, and sponsorships of national and regional conferences. (PR)

Operation of State Entryy Conservation Plans

Frequency/Due Dote: Annually / December 22.

Agency Contoct: Office of Conservation and Environment. (202) 951-\$370

Congressional Raciplent: House of Representatives: Clerk of the House ; House Committee on Interior and Insular Affairs; Scnater Secretary of the Senate ; Senate Committee on Energy and Natural Resources.

Authority: Energy Policy and Conservation Act (P.L. 94-0163; 59 Stat. 935; 42 U.S.C 6325).

Data Base Referance: R-02504-004

This report reviews energy conservation goals for each State for 1980 m well as interim goals. Goals consist of the maximum reduction in the consumption of everyy during any year as a result of a State energy conservation plan. Information is presented on the operation of the energy conservation program, estimated energy conservation achieved, the degree of State participation and achievement, innovative conservation program undertaken by individual States, and recommendations for additional legislation. (PR)

296

Industrial Energy Efficancy Program

Frequency/Dua Doter Annually / Unspecified. Agency Contects Office of Energy Conservation and Environment. (202) 254-9782

Congressionel Reciptent: House Committee on Interior and Insular Affairs, House Committee on Science and Technology; Senate Committee on Commerce, Science and Transportation; Smare Committee on Beergy and Natural Resources.

Authoritys Energy Policy and Conservation Act (P.L. 94-163; 89 Stat. 937: 42 U.S.C. 6345). Dato Bose Reference: R-02904-005

This report summanzes progress toward meeting industrial energy efficiency improvement larges set by the Federal Bacegy Administration and reviews progress in meeting such targets since the publication of the previous report. The basis information for this report was submitted by industrial representatives. (PE)

FEDERAL POWER COMMISSION

297

Effect and Operation of Interstate Compacts Relating to Natural Gaz. Frequency/Dus Date: As required / Upon occurrence of event Agreey Contect: Bureau of Natural Gas (202) 275-4477

Congressional Raciplant: Congress; How Committee on Interior and Insular Affairs, Smare Committee on Energy and Natural Resources.

Authority: Natural Gas Act (P L 75-688; 52 Stat. 827; 15 U.S.C. 717j(b)).

Date Basa Reference: R-03301-001

This report summarizes data relative to compacts between two or more Sates a forcing the conservation, production, transportation, or distribution of natural gas. The effect and opension of such compacts are reported, and recommendations are unade for further bajislation which appears necessary to promote the purposes of interstate compacts. (PR)

294

Reports of Coste of Certain Structures on Nongovernment Waters, Frequency/Due Data: As required / Upon occurrence of event, Agency Costoct: Bureau of Power (202) 275-4863.

Congressional Recipient: Congress; House Committee on Interior and Insular Affairs; Sevete Committee on Energy and Natural Resources.

Authority: Federal Water Power Act (P.L. 66-280; 41 Stat 1070; 16 U.S.C. 805).

Data Sasa Rafarance: R-03302-002

This report encompenses recommendations relating to Federal participation in construction of locks or other navigation structures in conjunction with hydroclectric power projects on nongovernment waters. Cost estimates are included. (PR)

ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION

299

ERDA Report of Revenue of Design, Construction, and Planning of Platonium Processing Pacifities, FCM-1

Frequency/Dys Dete: Quarterly / Unspecified.

Agency Contact: Division of Facilitics and Construction Management. (301) 353-6700.

Congressional Raciptent: Jour Committee on Atomic Energy. Authority: H. Ront. 92-1056; S. Ront. 92-802.

Dote Boss Rafarance: R-06000-001

The review covers status of construction, processment, and the project estimates a well as a full update on design of all after between for the fullity. Detailed design of the process areas, nethoding results of information resolved from workoor of critical oupigment, indicates that all originally designed and planned nafety equipment features will be necessmodiated in the heality within the current estimate.

300

Report on the Status of Major Construction Projects Experiencing Significant Variances.

Frequency/Des Dets: Semianneally / Unspecified.

Agancy Costoct: Division of Facilities and Construction Management. (301) 353-4700. Congressionel Raciplant: Joint Committee on Atomic Energy. Authority: Requested by the General Accounting Office. Dete Bass Referances R-06005-002.

The report provides information on maclear materials, weapone, reactor research and development, general energy development, spece nuclear systems, hybrical research, and biomedical and enviremmental research. Instituted are the project todget number; title dellar amounts, infonding a dipital title sheet, itseed. Compress advited, and current; completion status of design and construction; and original and current entimated ormation development.

301

Report on Fast Flax Test Facility. RRD-1.

Frequency/Dua Date: Quarterly / Unspecified.

Agancy Contact: Fast Flux Tost Pacifity Project Office. (509) 942-5481.

Congressionel Recipient: House Committee on Appropriations; Senare Committee on Appropriations; Joint Committee on Atomic Entern.

Authoritys Requested by the Public Works Subcommittee of the Senate Appropriations Committee.

Dota Basa References R-06000-010

This report summarizes the status, progress, espendituros, and other major developments of the Fast Flux. Test Facility,

502

Activities of Solar Energy Coordination and Management Project. SE-1. Frequency/Dua Dotu: Annually / Unspecified.

Agency Connect: Assistant Administrator for Planning, Analysis, and Evaluation. (202) 376-4337.

Congressional Racipioni: House Committee on Interior and Insular Affairs; South Committee on Energy and Natural Resources; Joint Committee on Atomie Energy.

Authority: Solar Energy Research, Development, and Demenstratice Act of 1974 (P.L. 92-473; 88 Stat. 1437; 42 U.S.C. 5562). Date Bess Reference: R-06000-019

This reports summarizes international cooperative agreements for research and information dissentiation relating to solar energy resources and technologies during the year. Projected activities and funding requirements for the ensuing 5 years are presented, and appropriate legislative and reorganizational notions are recommended. (PR)

300

Popused Distribution of Spacial Nuclear Materials. AIA-2. Frequency/Dos Dates: As required / Upon occurrence of ovent. Agency Corbox Office for Intermitional Affairs. (200) 376-4410. Compressional Raciplant: Actu Committee on Atomic Energy. Authority: Atomic Energy Act of 1954, as annotated (PL, 93-377; 88 Sat. 473, 42 U.S.C. 2074(00)).

Dete Bass Reference: R-05000-020

This report atignities the procedures to be followed before proposed interactional distribution of peoplat nuclear nutrichle are be implemented. Such materials are to be used for molical iterary or other percedul purposes. Limitations are specified in terms of amounts of materials to be experted, dollar value of materials, and imported in which they may be distributed. A mother is found for the submission of program easies and the composition the mode of records can encodents action to clearly and the mode of records can encodents action to clearly. (FR)

304

Proposed Agreements for Cooperation with Other Nations on Atomsc Energy, AIA-1

Frequency/Due Dates As required / Upon occurrence of event. Astocy Centers International Affairs. (202) 376-6410.

Congressional Raciplant: Joint Committee on Atomic Energy. Authority: Atomic Energy Act of 1954, as amended (P.L. 92-485; 88 Stat: 1460: 42 U.S.C. 2153d). Data Sase Reference: R-06000-021

This report details procedures for presenting proposed international cooperative agreements regarding nuclear reactors to Congreas and outlines desclines for Congressional recommendations and approval of such proposals. (PR)

Notional Plan for Energy Research, Development and Demonstration Pleaning and Analysis APAE-1.

Prequency/Due Dote: Annually / When President submits bpdget. Agency Contexts Assistant Administrator for Planning, Research and Evaluation, (202) 376-4337,

Congressional Recipient: Haute Committee on Interior and Inspire Affairs: Searce Committee on Energy and Natural Resources. Authonity: Federal Nonnuclear Energy Research and Development Act of 1974 (P.L. 93-577; 88 Stat. 1894; 42 U.S.C. 5914(a)). Data Base Reference: R-06003-001

This report details activities related to a comprehensive plan for nuclear and nonnuclear entray research, development, and demonstrations and sets forth modifications and revisions in the plan. Consideration is given to anticipated restarch, development, and application objectives to be achieved: the economic, environmental, and societal significance which the proposed program may have, and the total cost of individual program items. The estimated relative financial contributions of Federal and non-Pederal participants is estimated, and the relationship of the proposed program to Federal national energy or fuel policies is discussed. The effect of short-term undertakings and expenditures on Icna-range goals is reviewed. (PR)

306

Activities of the Geothermal Coordination and Manapament Project. GE-1.

Frances/Dup Date: Annually / Ununcified.

Againty Contoet: Division of Geothermal Energy. (202)376-4897. Congressional Recipient: House Committee on Interior and Insular Affairs; Seaste Committee on Energy and Natural Resources. Authoritys Geothermal Energy Research, Development, and Demonstration Act of 1974 (P.L. 93-410: 38 Stat. 1088: 30 U.S.C.

Data Base Reference: R-06007-001

This report sustmarizes sotivities of the national geothermal energy research, development, and demonstration program and evaluates the program's progress. Estimates and projects are preparited in an attempt to assess the extent to which the objectives of the authorizing legislation will have been met by June 30, 1980, (PR)

Activities of Each Geothermal Demonstration Project. GE-2. Frequency/Dus Date: As required / Upon occurrence of event Agency Contests Division of Geothermal Energy, (202) 376-4900. Congressional Recipients House Committee on Interior and Insular Affairs; Seature Committee on Energy and Natural Resources. Authority: Gothermal Energy Research, Development, and Demonstration Act of 1974 (P.L. 93-410; 88 Stat. 1088; 30 U.S.C. 1162(b))

Data Sase Reference: R-06007-002

This report embedits a final review of the activities of each repjoct undertaken as a part of the national geothermal energy research. development, and domoastration program. Other legislative and administrative actions which should be undertaken to further the goals of this program are recommended. (PR)

National Program for Solar Heating and Cooling. SE-2. Frequency/Due Date: Annually / Unspecified. Agancy Contoct: Division of Sciar Energy. (202) 376-4435. Congrantional Recipient: Heuse Committee on Interior and Insular Affairs, Sesery Committee on Energy and Natural Resources. Authority: Solar Heating and Cooling Demonstration Act of 1974 (P.L. 93-409; \$8 Stat. 1076; 42 U.S.C. 5510(d)). Data Base Reference: R-06007-003

This report describes retrieval and dissemination services for information pertaining to solar heating and cooling. Such information services have been provided for Poderal, State, and local government orgenizations; universities, colleges, and other nonprofit organizations; and, in appropriate cases, for private individuals. (PR)

Hansial Report on the Geothermal Resources Development Fund. OE-3

Fraquency/Dua Date: Annually / Unspecified.

Apancy Contact: Division of Geothermal Energy, (202) 376-4899. Congrassional Recipients Heuse Committee on Interior and Insular Affairs: Senate Committee on Energy and Natural Resources.

Authority: Goothermal Energy Research, Development, and Demonstration Act of 1974 (P.L. 93-410; 88 Stat. 1058; 30 U.S.C. 1144(c))

Doto Bosa Rafaranca: R-06007-004

This financial report documents operations of a fund established to carry out the loan guaranty and interest assistance program established in conjunction with the geothermal resources and research program, (PR)

110

Report on ERDA's Nannuclear Activities. OPA-2.

Frequency/Due Dote: Annually / Unspecified.

Aganey Contoct: Office of Public Affairs. (301) 353-4551. Congrassional Recipient: Jobs Committee on Atomic Energy. Authority: Federal Nonnuclear Energy Research and Development Act of 1974 (P.L. 93-577, § 15(a); 88 Stat. 1878; 42 U.S.C. 5901). Doto Bosa Reference: R-06013-001

This report contains a description of a comprehensive plan for success and nonnuclear energy research, development, and demonstration, as directed by the Energy Reorganization Act of 1974. The Act is designed to achieve solutions to immediate and short-term (to the early 1980's), middle-term (the early 1980's to 2000), and longterm (beyond 2000) energy-supply system and associated environmental problems. The nonnuclear report shall include information on anticipated research, development, and application objectives to be achieved by the proposed program; the economic, environmental, and societal significance of the proposed program; the total estimated cost of individual program items; the estimated relative financial contributions of the Federal government and non-Federal participants in the research and development program; the relationship of the proposed program to any Federal national energy or fuel policies; and the relationship of any short-term undertakings and expenditures to long-range goals.

331

Fauil Energy Program Report. AFE-1.

Frequency/Dua Date: Annually / Unspecified.

Agency Contact: Office of Public Affairs. (202) 376-4064.

Congrassional Recipiants Hause Committee on Science and Technology; Senate Committee on Energy and Natural Resources. Authenity: Voluntary,

Date Bass References R-05013-003

This report summarizes efforts of the agency and industry to develop and demonstrate technology for synthetic fuels from coal. improved recovery methods applicable to petroleum, natural gas, and oil shale are discussed. (PR)

312

Report on Acousty and Program Index of the Energy Research and Development Administration: Statut of Construction Projects and Other Dates OC.9

Frequency/Due Date: Semianntally / Unspecified.

Anancy Contact: Office of the Controller (301) 353-5325 Constantinuel Parislant, Joint Committee on Atomia Energy Authority: Represented by the Jeint Committee on Atomic Energy Data Bose Reference: R-06015-001

The index provides information on the status of active authorized construction projects, and includes data on solar, prothermal, and advanced energy systems development, including physical research: nuclear energy development, including fission power reactor develcoment, naval reactor development, space nuclear materials systerms and outlear materials: national accurity, including agencies laser fusion, and nuclear materials security; environmental and safety research, including biomedical and environmental research and waste management; program support, including program direction; construction planning and design, general plant projects; and reactor safety research

Report by the U.S. Energy Research and Development Administration: Status of Construction Projects and Other Date. OC-10. Frequency/Duo Dote: Annually / Untracified Agancy Contact: Office of the Controller. (301) 353-5325. Congravional Parialant: Jain Committee on Atomic Energy Authority: Requested by the Joint Committee on Atomic Energy, Data Rate Reference: R-06015-002

The report provides information on the status of active authorized construction projects, including solar, acothermal, and advaniend energy systems development, nutlear energy development. national security, environmental and safety research, program support, construction planning and design, scotral plant projects, and reactor safety research, active anthorized projects on which revised cost estimates have exceeded the authorized limitations after the project has been started; authorized projects that have been comploted: projects not started but for which funds have been authorized sithough not yet available; analysis of unexpended balances; and a comparison of Atomic Energy Commission (AEC) division requests for construction projects with estimates submitted to the Office of Management and Budget and the submission to Congress. In addition, the report provides information on the President's fiscal year budget estimates for those amounts allocated for the AEC's operating expenses and capital equipment not related to construction.

314

Report on Reprogramming Action for the Nuclear Materials Program. 00.1

Frequency/Due Date: As required / Unspecified. Agancy Contoch: Office of the Controllor. (301) 353-5325. Congressional Resigners, Joint Committee on Atomic Energy, Appharity: Reputated by the Joint Committee on Atomic Energy. Data Bass Reference: R-06015-005

This memorandum provides information on a proposed reprogramming action that will provide an additional \$15.5 million in fiscal year 1975 operating funds for increases in costs of electrical nower for the saseous diffusion plants or casesde power. The inoreased cost of cascade power has resulted principally from higher than enticipated coal costs for the electric power suppliers-Tennesare Valley Appherity, Electric Energy Inc., and Ohio Valley Electric Com-subich is turn are named on to their customers. The report states what the issue is, the background, the alternative, and a recommendation. In addition, it includes copies of letters to the chairman of the Joint Committee on Atomic Energy which provide statistical data related to costs.

Energy Digest SEPTEMBER 1977

....

Proposed Establishment of Joint Pederal-Industry Nonsuclear Corpora-NW OC-11.

Frequency/Due Date: As required / Upon occurrence of event. Agancy Contracts Office of Controller (301) 353-5325.

Congressional Recipient: House Committee on Science and Techneleay, Single Committee on Energy and Natural Resources.

Authority: Federal Nonouclear Energy Research and Development Act of 1974 (P.L. 93-577; 18 Stat. 7883; 42 U.S.C. 5906(b)(7)(A)). Data Base Referance: R-05015-010

This report sets forth procedures for the establishment of joint Federal-industry corporations of nonnaclear energy research and development. Specific legislation must be enacted by Concess before such comparations can be established. Guidelines are orilloed for competitive systems of price sumparts proposed for concreasional authorization of such corporations, and procedures are specified for the award of planning grants and the construction of commercial demonstration (scilities (PP))

NUCLEAR REGULATORY COMMISSION

316

Summary of Abnormal Occurrences Reported to the Nuclear Resulatory Commission

Frequency/Due Date: Quarterly / Unspecified.

Agency Contact: Nuclear Regulatory Commission. (301) 492-7735. Congressional Recipient: Joint Committee on Atomic Poerry Authority: Energy Reorganization Act of 1974 (P.L. 93-438, § 208; 38 Stat. 1248: 42 U.S.C. 5848) Data Basa Raference: 8-06200-002

This report lists abnormal occurrences at or associated with new facility which is licensed or otherwise resulted surmant to the Atomic Poercy Act of 1954 as amended or pursuant to the Poercy Reorganization Act of 1974. An abnormal occurrence is defined as as unscheduled incident or event which the Controlition determinate is significant from the standpoint of public health or safety. The report contains information on 1) the date and place of each occurrence: 2) the nature and probable consequence of each occurrence; I) the cause or causes of each occurrence; and 4) any action taken to prevent reconcurrence.

317

Budget History Tables

Frequency/Due Date: Annually / Unspecified.

August Contact: Nuclear Resultary Commission. (101) 492-7988. Congressional Recipient: Joint Committee on Atomic Energy. Authority: Requested by the Joint Committee on Atomic Energy. Data Base Reference: R-06200-010

This report is to provide current authorization and appropriation background information on the Atomic Energy Commission (AEC) for use in connection with the fiscal year authorization bill. The Pall Planning Projections containing the unclassified 5-year budget prolections for ABC programs and their subparts abould also be included. In addition, fact shoets should be provided on the nuclear materials security program, the controlled thermonuclear research and laser fusion program, the laser isotones soparation program, the liquid metal fast breeder reactor project, the waste management and transportation program and various construction projects

Report to the President by the Nuclear Regulatory Commission. Frequency/Due Date: Annually / Unspecified.

Agancey Contact: Nuclear Resulatory Commission. (301) 492-7283. Congrossional Recipionit House Committee on Government Operations; Smale Committee on Governmental Affairs; Joint Committee on Atomic Energy.

Authority: Energy Reorganization Act of 1974 (P.L. 93-438, § 307(c); 88 Stat. 1251; 42 U.S.C. 5877(c)).

Data Base Reference: R-06200-013

This report summerizes the activities of the Natises Regulatory Committant. It is closed a satemeters of horn-ang and lang-maggoint, profilest, and plans an targe raties to the bearding, costs, and and the satemeters of the satemeters of horn-ang and lang-magling the and dedge of nacises proverplants; 2) investigating absommt advances and dedge of nacises proverplants; 2) investigating absommt advances and advances in nacises proverplants; 2) investigating absommt advances and advances in nacises proverplants; 2) investigating absommt advances and advances in nacises proverplants; 2) investigating absommt advances and advances of the sate of proving investigating advances and advances and advances of the sate of proving investigating the advances of the advances of the sate of proving investigating advances of the sate advances of the sate of the sate. Provements (degrant is the sates) of the sate of the sate of the sate matrixes.

Appendix 3

Federal Information Sources and Systems on Energy

Citations in this appendix are extracted from Federal Information Sources and Systems; a Directory issued by the Comptoiler General for the period through June 30, 1976. [1977 Congressional Sourcebook Series] PAD-77-1; 1977. (in press).

DEPARTMENT OF THE INTERIOR

319

National Natural Resources Library and Information Systems (NNRLIS).

OMB Funding Title/Code: Departmental Operations / 14-0108-0-1-306.

Congrissional Ralavance: Hoste Committee on Agricultures Houre Committee on Appropriations: Instaire Subcommittee, Houre Committee on Interior and Insular Affhics, Sonate Committee on Agriculture, Nutrilloa, and Forestry, Sonate Committee on Appropriations Instrior Subcommittee, Sonate Committee on Energy and Natural Recorress.

Date Base Reference: S-00700-002

Subject Terms: Information Canters; Libraries; Natural Resources.

Prozen The system provides Rever, not Inducation scretters and hoppword and Darports and an borneau and dates. It has been approxed to a programment of the system of the system regions, and hole provements and mere the system scales. A pardistribution of the system of the system of the system of the product hypothold materials. It have not a similar production product hypothold materials. It have not an experimental product hypothold materials are strengthere and the product hypothold materials. The system of the system product hypothold materials are strengthere and the materials on small measures are solutioned in the system product hypothold materials. The system of the system products hypothold materials are strengthered and the system of the system of the system of the system products and the system wave. The system of the system products and the system wave. The system of the system products are applied by the system of the system of the system products and the system wave. The system of the system of the system products are applied by the system of the sy

Agancy Contoch: Office of Library and Information Services; 19th and C. Streets NW, Room 1152, Washington, DC 20240; (202) 343-5521.

320

Federal Holium Program,

OMB Funding Tala/Coda: Holium Fund / 14-4053-0-3-306. Congressional Ralavanes: Heure Committee on Interior and Insular Atfairs; Swate Committee on Energy and Natural Resources.

Data Base Reference: S-00711-003

Subject Termu Hellum.

Pursue: The Federal helium moanum is designed to provide for the ourrent and foresoeable future requirements for helium for essential Government activities. The program involves the production. conservation, sale, and distribution of helium and includes the following functions: 1) Acquisition, construction, operation, and managoment of helium plants, gas fields, helium storage fields, pipelines, and fleets of hellum tank cars and semitrailers: 2) the search for new sources of helium-bearing natural gas and negotiation of contracts for supplies of helium-bearing gas; 3) establishment of helium reserves: and 4) experimentation and research to discover helium supplies and to improve methods of helium production, purification, transportation, liquefaction, storage, and utilization. Apar: Information is gathered through internal operations and contracts with other Federal agencies, private helium producers, distributors and users, well drilling companies, and natural gas producers and distributors by means of statistical surveys, personal contact, and literature searches. Content: Information covering all aspects of helium production, ming, distributions, conservation, mag, future demanda, and contexer largest collection and instrum the margin waves interaction and contexer largest properts, and publications. These regests are generative lucations and any second second second second second second second second second and the second second second second second second described down, in gathered manuscript and where possible, worldwide, *Chapter*, Response cannot and information circuits and informations and any second second second second second second binding is anomal gases local thready on the United States and research local second second second second resources and conservation local second second second second second second National Technical Information Service of the Department of Conmental Information Service of the Department of Con-MERT

Agassy Contests Division of Holium; Columbia Plaza, 5th Floor, 2401 B St. NW, Washington, DC; (202) 634-4734.

321

Miseral Land Assessment.

OMB Funding Title/Coder Mines and Minerals / 14-0959-0-1-3(0) Consolidated Working Fund / 14-3909-0-4-306.

Congressional Raivences: Houre Committee on Appropriations intector Subcommittee, Houre Committee on Education and Labor, Houre Oceanities on Interjee and Insulte Atheirs, Sware Committee on Appropriations Interjee's Schoolcommittee, Sware Committee Energy and Natural Resources; Sware Vommittee on Governmental Affairs.

Data Base Reference: S-007[1-004

Subject Terms: Facil; Land Use; Minerals.

Parpose: Mineral assessments are made with both regional and ramodity emphasis to identify the sources and availability of mincrain and fucis. These serve as input for those decisionmakers given the responsibility for land use planning and decisions, particularly these involving public lands. They also assist public and private groups in resolving onvironmental and engineering problems associated with maintaining adocuate mineral supplies. Input These assessments are developed through courthouse mining claim starches, public and company record studies, and field work. The bulk of the activities are conducted through four field offices. Contents Under the Wilderness Act of 1964 and the Esstern Wilderness Act of 1974, and in conjunction with the Goological Survey, mineral assessments of national forest areas are conducted. These provide an evaluation of an area's mineral reserves and paramarginal resources. Similar studies are made of wild and scenic rivers and Indian lands. Information is gathered for minerally related environmental impact statements which are reviewed on a formal and informal basis: rive basin studies that evaluate mineral resource development, related water requirements, and water pollution problems; and dam and resprvoir sites to assess the impact of proposed construction on mineral resources. Ownut: Project files are the major output. Doctments are published occasionally. Availability: The information is publicity available.

Agancy Contoct: Office of the Associate Director; 2401 E St. NW, Room 1038, Washington, DC 20241; (202) 634-1330.

322

Minards Information System (MINPO).

OMB Funding THe/Code: Mints and Mintrals / 14-0959-0-1-300; Consolidated Working Fund /14-3909-0-4-305; Contributed Funds/ 14-8287-0-7-306. Congressionel Relayences: Howe Committee in Appropriations: Interor Subcommittee, Howa Comstitute on Education and Labor, Howe Committee on Interior and Innuita Addins; Same Committee on Appropriations: Intence Subcommittee; Same Committee on Entry and Neural Resources; Samte Committee on Governmental Affura

Date Base Reference: S-00711-005

Subject Terris: International Trade, Minerals

Parport: The system develops and disseminates a coordinated hole of basis monorals information, both domastic and foreign, comering govards of (00 commodules for Government and industry policy, planning, and decisionmaking. Input: The information is collected by canvassing \$0,000 mineral establishments by means of more than 600 stanstical puterst and by pertract contacts on a weekly, monthly, quarterly, semannual, or sensual basis. In addition, foreign date are obtained from various publications, foreign service dispetches, other Government agencies, and mineral attaches at foreito costs. Control: Technical and economic information covering all aspects of roserves, production, processing, consumption, and international trade is collected. This information is unalyzed to determine what the current and future mineral-related problems and onexecusities are and to identify the underlying factors. In addition, the effects that legislation and policy decisions have on the supely/demond relationship of minerals as well as their impact on the environment, economy, and public well-being are assessed. MINFO is enhanced by two automated subsystems: Fuels Auslability System (FAS) and the Minerals Ausilability System (MAS). State linison officers are channels of information for both the Enfetal and State interests. They are intuit sources for MINEO. They also are sources of the system's output at the State learly. Datast: The Russian of Mines develops and deseminates in a variety of forms many emorts and studies. The following is a list of principal, periodic publications: Mineral Industry Surveys (weekly, monthly, quarterly, and annually)- Minerals and Materials (a monthly surged- Mineral Trade Notes (mostblak International Cost Trade (montblak Commodity Data Summeries (neuvily): Status of the Musteria Industries (meaaliv): Minerals in the U.S. Economy (annutily); Mineral Trends and Forecasts (annuality): Minerals Yearback-three uniumes (annuality)and Mineral Facts and Problems (every five years). Austilability: The publications are sublicity available.

Agancy Contexts: Office of the Associate Durector; 2401 E St. NW, Room 1038, Washington, DC 20241; (202) 634-1330.

323

Masing Research

OMB Funding Title/Codu Mines and Minerals / 14-0559-0-1-300; Contoliasted Working Fund/14-3009-0-4-306; Contributed Punds/ 14-3287-0-7-306; Miscellancous Appropriations / 14-9911-0-1-306.

Congression of Ruley-costs. Hear Committee on Appropriations Livering Subcentrates; Heave Committee on Rulewation and Labor, House Committee on Interior and Institute Affring, Small Committee on Appropriations: Internet Subcentratises; Stande Committee on Energy and Natural Resnerces; Stander Committee on Governmental Affairs.

Date Base Reference: S-00711-006

Subject Yawas Energy, Paris; Minerals; Mining Research; Power Resources; Research.

Prepare: The mining reserved program of the barene of Males is simular 4 producing technologies that will have next the Nation's increasing ministri and energy demands at the lowest possible acount and costantic costs. The major thrust of the mining search technology program fails while three basis rengams arecen. Mailes thereas and search reserved, Annual Maling Technology Reserved and the search of the search and the search technology and the search of the search of the search and the search of the search of the search of the search search of the search of the search of the search of the formation of the search of the search of the search of the of the search of the searc simultaneously developing new systems that are safer and more produalize and compatible with an aesthetic environment. Insur, The research program is conducted out of five research centers located in Carbondale, IL: Denver, CO: Minneapolis, MN: Pittsburgh, PA: Stokane, WA: and an environmental field office at Wilket-Barre, PA Context: The context of the Mining Research information varics depending upon the nature of the research activity. Some research data reflects broad and alamficant projects or programs of scientific incuiry. Other information presents Bureau research which describes the principal features and results of individual experiments (single or multiple), minor research protects, or a significant coordinated phase of a major project or program. These data also may include a summany of several projects or activities in a given subject area, results of laboratory analyses of an unusual nature, and comparative and nonrmating testing. Still other data power summaries of scientific and technical meetings, bibliographics, and descriptions of new mining processes. Gataat: The Ruceau of Mines reports the findings of its sevenish and investigations in its own stricts of publications and also in articles that annear in scientific, technical, and tradit icernals; in proceedings of conventions and seminars in reference books and in other non-Burrow sublications. Mining ophilostions are Bullotins Technical Progress Reports, Report of Investigation, Open File Reports, Information Circulars, and Patents, These data are senerally according and released to the public after a specific study or research needed has been completed. Availability: Promau roblics. tions are aphiliply symichle.

Aganty Contexts. Mining: 2401 E St. NW, Washington, DC 20241; (202) 634-1210.

324

Research Information Management System (RIMS).

Odd Funding This/Coin: Mines and Minerals / 14-0959-0-1-300; Consolidated Working Fund//14-3909-0-4-306; Contributed Funds/ 14-327-0-7-306; Mineellaneous Appropriations / 14-9911-0-1-306.

Congressional Rainvennes Houre Committee on Appropriations: Interior Sabournaminee, Houre Committee on Baucaston and Lakor, Houre Committee on Insteinor and Issuitar Allaira, Seater Committee on Appropriations: Interior Subcommittee, Source Committee Energy and Natural Resources; Seater Committee on Governmental Affaira.

Date State Reference: S-00711-001

Subject Terms: Managaments Information Systems; Musing Research, Planning; Research.

Person: This is a computerized data storage and retrieval system which supports the planning and management of mining research of the Bureau of Mines. It accumulates, organizes, and summarizes data on the substance, schedule, status, and cost of all projects, from proposal so project completion, in the research program conducted by the Office of the Assistant Director-Mining, Bureau of Mines. Input: The data contained in this system are derived from program memoranda and contract award notices within the Bureau of Miters Content: The system consists of a series of reports which are updated monthly or more frequently by special request. The data in these reports consist of the following: project identification numbers, prolect titles, contractor name and address, program area, resourch area, research center involved, contract modifications, project sward date, expected completion date, dollar expenditures, project monitors, and congressional districts. Output: RIMS serves Eureau of Mines mtnatement by generating standard and special reports at scheduled intervals or upon ad hoo request. For the rontine dissemination of seneral contract status summaries, standard reports are reproduced and distributed at monthly intervals. Special reports may be reproduced or may be queried from the data base, depending upon the size of the request and time frame involved. Availability: RIMS output. is for internal use only.

Agapty Context: Mining; 2401 E St. NW, Washington, DC 20241; (202) 634-1220.

325

National Water Data Exchange (NAWDEX)

OMB Funding Title/Code: Surveys, Investigations, and Research / 14-0804-0-1-306.

Congrassionel Rolevances: Houre Committee on Appropriations: Interior Subcommittee; House Committee on Interior and Insular Affairs; Seaste Committee on Appropriations: Interior Subcommittee; Seaster Committee on Energy and Natural Resources.

Data Base Reference: S-00712-002

Subject Terms: Hydrology; Location, Water

Purpose: NAWDEX provides nationwide assistance to users of water data in the identification, location, and acquisition of needed data. Information is provided on water data available from Federal. State governmental, local governmental, and private organizations, NAWDEX is intended to benefit all users of water data including Federal, State, and local governmental organizations; private organizations and individuals: universities; and water, environmental, and energy resource planners, managers, and scientists. Insur: NAW-DEX gathers information on water data available from surface and groundwater sites. This information is currently supplied by 19 Federal organizations and 300 non-Federal organizations active in water data collection activities. Contributing non-Federal organizations include State governmental organizations, local governmental organizations, river basin commissions, interstate commissions, irrigation districts, universities, public utilities, and private organizations. Content: NAWDEX data systems include a Water Data Sources Directory which contains information on organizations that collect water data, the types of data collected, geographic areas in which data are collected, and locations within each organization from which water data may be acquired. A nationwide Master Water Data Index is also maintained which identifies sites for which water data are collected. the collecting organization, the geographic location of the site, the type of site, the types of data collected, the periods of records for which data are available, major water data parameters being measured and their frequency of measurement, and the modia in which each type of data are available. Each water data site is geographically identified by latitude, longitude, State code, county code, congressional district, and hydrologic unit or basin code. These data systems are updated on an annual basis and contain information on the availability of streamflow, river stages, peak and low flow values, reservoir or lake volumes, geologic identifiers, groundwater levels, groundwater discharges, well depths, and water quality data of surface and groundwaters including physical, biological, sediment, and chemical characteristics. Quote: NAWDEX data systems have both remote batch and interactive ad hoc query capability. Printed reports and tables of information on data availability are produced. Numeric summaries of categories of data available may also be produced. A printed directory of sources of water data is published periodically for public dissemination. Ad hoc reports are produced upon request. Availability: The output is publicly available.

Agancy Contect: National Water Data Exchange; 421 National Center, Reston, VA 22092; (703) \$60-6031.

326

Land and Mineral Conservation Information System.

OMB Funding Title/Ceda: Surveys, Investigations, and Research / 14-0804-0-1-306.

Congressional Relevances: House Committee on Appropriations: Interior Subcommittee; House Committee on Interior and Insular Affairs; Senare Committee on Appropristions: Interior Subcommittee; Senare Committee on Horgey and Natural Resources.

Data Base Reference: S-00712-009

Subject Terress Land; Mineralogical Research; Minerals; Natural Resources Conservation; Research.

Purpose: The system provides a methodology for collecting, analyzing, and daseminating information relative to the effective development of land and mineral resources within the jurisdiction of the Federal Government. Aspat Information is gathered by scientifle observation of physical characteristics of potential minerals areas to establish the statistical probability of economically feasible occurrences and subsequent compliance with regulations and legislation relating to the orderly extractions in a manner most favorable to the public interest Content: The information system includes the Federal jurisdiction of land and mineral development. Subsystems include energy producing minerals, non-energy producing minerals, and water storage patential for energy producing parroses. Certain portions of information established under legislative directive are retained permanently, while other catagories gathered for various purposes are retained for periods relative to the utility and continued scoursey of information. Data are maintained current according to need. Output: The major output types are evaluative-selective onetime, hardcopy, inventory-nonperiodic, circulars or balleting; supervisory-monthly, hardcopy; and financial-annual, hardcopy, Availability: The reports are for internal use only.

Agency Contect: Conservation Division; 12201 Sunvise Valley Dr., Reston, VA 22092; (703) 860-7524.

327

Geologic Surveys, Investigations, and Research Program.

OMB Funding Titls/Codm Surveys, Investigations, and Research / 14-0804-0-1-306.

Congrussional Ralavences: House Committee on Appropriations: Interior Subcommittee; House Committee on Interior and Impute Aftains; Steate Committee on Appropriations: Interior Subcommittee; Senser Committee on Energy and Natural Resources.

Data Base Reference: 5-00712-010

Subject Terress Geology; Geophysical Research, Land Use; Mineral Resources; Research.

Person: The national program of geologic research and investiions provides teologie, geochemical, and geophysical information for other Government agencies and for the general tublic on land resources, on mineral and energy resources, and on geologic hazards of the Nation and its territories. The relationship of geologie research and investigations to human welfare is particularly significant. Examples are the geologic hazards such as earthoughes, volcano eroptions, and landslides in when and suburban areas; the development and use of energy resources, including oil and gas, coal, uranium, and genthermal waters, on the environment of the earth's surface; and the depletion of known mineral reserves and their correstonding impacts on the national and world economics. Area: Geologic research and investigations entail a systematic study, macoling, and analysis of the geology of the United States and the submerged edges of the contineat. Knowledge is obtained about the distribution, structure, and potential usefulness of the rocks on and beneath the surface of the earth. Geochysical sechniques measure the variations in the earth's gravity, magnetic field, and electrical sensitivity to bein trace prologic features honeath the surface. Geochemical studies include determining the distribution of elements in the earth's mantle and crust: determining the processes that form one bodies determining isotopes and their application to establishing the age of rocks; and analyzing rocks, minerals, and ores. Content: The national program produces recloric, grophysical, and secchemical maps and analyses that show the distribution, age, composition, structure, and physical properties of rocks and minerals at and beneath the earth's surface; new or improved methods, techniques, and instruments for mineral or energy exploration on land and on the submerged continental margins; and, with the bein of other State and Federal agencies, information on the elemistry and physics of the earth, moon, planets, and the geologic processes by which they were formed and are continually being modified. Output: The major output types are professional papers, bulletins, circulars, geologic quadrangle maps, Journal of Research, open-file reports, misoellaneous investigation maps, administrative reports, miscellaneous field studies maps, geophysical investigations maps, earthquake information bulletin, geological survey annual research, geological survey annual director's report, National Technical Information Service reports, and general interest pamphlets. Antilebility: The professional papers, bulleting, circulars, and general interest pemphlets are obtainable by mail from Branch of Distribution, U.S. Geological Survey, 1200 South Eads St. Arlington, VA 22202. The Journal of Research and the Earthquake information Bulletin can be obtained from GPO For mans of areas east of the Massissippi River, including Minnesota, Poerto Rice, and the Virgin Islands, address mail orders to Branch of Distribution. U.S. Geological Survey, 1200 South Eads St., Arlington, VA 22202. For maps of areas west of the Mississipps River, including Alaska, Hawasi, Louisiana, Guarn, and American Samoo, address mail orders tor Branch of Distribution, U.S. Geological Survey, Box 25286, Fedcrst Center, Denver, CO 80225 Residents of Alaska may order Alaska mens from: Distribution Section, U.S. Geological Survey, 310 First Ave, Fairbanks, AK 99701.

Agency Cantect: Geologic Division; 911 National Center, Reston, VA 22092; (703) 860-6531.

328

Evergy Resource Data Systems.

OMB Funding Tills/Code: Surveys, Investigations, and Research / 14-08/04-0-1-306

Congruisational Relevance: House Committee on Appropriations: interior Subcommittee; House Committee on Interior and Insular Affairs; Source Committee on Appropriations: Interior Subcommittee; Source Cognitification Energy and Natural Resources.

Data Base Reference: S-00712-012

Subject Ternst Coal; Energy, Fools, Geochestral Energy, Petroleura; Power Resources; Research; Thorison; Uraniam.

Parpose: 'The system includes and docs the following: 1) NCRDS answers questions about the distribution and outlity of coal resources in the United States: 2) PDS provides production and reservoir data to conduct resource estimates of remaining petroleum; 3) WHCS allows detailed studies to be conducted in sectorically discret movinots: 4) GEOTHERM is used to study the cyclic behavior of genthermal "peols" which is reflected in the engineering characteristics: 5) srassum-thorium is used to construct occurrence models for this type of oce and 6) oil shale data are used to astess the three-dimensignal distribution of the resource. Insut: NCRDS receives data from published documents for file L and from application and field work for file 2. PDS gets data from State O and G regulatory appropriate and local genical surveys, and local genicalcal societies, WHCS data are provided by Petroleam Information Corporation, GEOTHERM data are compiled from tublished scorces and frem geothermal working groups around the world. Utanium-thorium data were collected in the 1950's, and supplemental data are provided by ERDA. Oil shale data are derived from existing drill cores which have been archived. Content: NCRDS is developing one file for easi teamage and chemical analysis records. cistalified by rank, depth, thickness, and location (to county level), and a second file for detailed coal occurrences by quadrangle PDS contains data on location, production, reservoir parameters, and fluid analyses for oil and gas pools. WHCS is an oil and gas well history file purchased from and maintained by Petroleum Information Corportation (Deriver), GEOTHERM contains recently of the incetion. exploration, development, evaluation, and engineering data of geothermal resources. The uranium-therium file contains ore and metal production data (proprietary), location, ownership, and gross actiony information. The cil shale file is composed of records derived from 300 drill cores containing data on location, lithelegy, and Fisher assays. Quent: The major output tunes are NCRDS. tomage of cost and analysis of cost resource summary reports for specified area. Contour maps, cross-sections, and resource (bed) maps; PDS-oil and gas pool distribution maps and detail pool reports or summary, regional reports. WHCS-contour maps and detailed well reports: GEOTHERM-occurrence maps and detailed engineering reports; uranius:-thorium-contour maps and generalized reports; and oil Shah-dnill core profiles and Fisher away reports by depitweinkahity. All files are generally available to the public, NCDBS and GEOTHERM are available through USGS, Reston, VA, PDS and WHC3 are available through the University of Oktaheous; uranme-shorinan and all abate data files are available through USGS. Deaver, CO. NCEDS, GEOTHERM, U-tha, and on data are all measure files in early developmental stages and only telected portions may be available

Agency Gesteat: Geologic Division; 911 National Center, Reston, VA 22092: (703) 860-6531

329

Coal Lease Data System

OME Feeding Title/Code: Management of Lands and Resources / 14-1109-0-1-302.

Congressional Relevances: House Committee on Agricultures House Committee on Appropriations: Interior Subcommittee, House Committee on Insterior and Institute Affluirs, Sonard Committee on Agricultures, Nutration, and Presentyr, Sanard Committee on Appropriations: Interior Subcommittee; Sanar Committee on Energy and Natural Resources.

Date Base Reference: S-00714-006

Sobject Ferma: Coal Losses, Lastes; Natural Resources.

Purpose: The only aspect of this system developed to date is the explicitly to maken as data file for coal leases. The system supports billing and compliance efforts. *Japan* Input course from field offices files as larening courses. Construct Information relates to the geography, supparably, surface unversible, expected productivity, terms and explaintions, and important dates of the lease. This data file will form the base from which a sew, broader system will be developed doubse: No research sex sensested.

Agency Contect: Chief; Division of Mineral Resources; 18th and C Streets NW, Washington, DC 20240; (202) 343-2718.

336

Oil Shale/Bentonity Title Clearance,

OMS Funding Title/Code: Management of Lands and Resources / 14-1109-0-1-312.

Congressional Raisevence: House Committee on Apriculture: Houre Committee on Appropriations: Interior Subcommittee Houre Committee on Interior and Instalar Athlairs, Senar Committee on Appointees Nutrition, and Freestry, Saware Committee on Apprepriations: Interior Subcommittee; Senar Committee on Energy and Natural Resources.

Date Base Reference: \$-00714-007

Subject Terma: Claims; Manarala, Natural Resources; Oat Shales; Shale Oils

Paper The system perifess limited appert is a cose for monihong yants by ransing papert of cosing, fagsing page till alternation, and perevilsa papert of claim appression and recotified alternations, and perevilsa papert of claim appression and recoting the system of the system investory data, titls binary data, and rained adjudicative values. The rans invested on a Westen, Calondon, Barter Uhah, and Social Storens, Garaghe Dalayy of Lands in Goldan, Wintheway, and Binary of Actions Report. Areastability in Roussian system are not explored and the system of the system of the system of the Binary of Actions Report. Areastability Roussian system are not report as an bady present.

Agency Contexts: Chief; Division of Mineral Resources; 18th and C Streets NW, Washington, DC 20240; (202) 343-2715.

331

Outer Continental Shelf Post-Sale Seriem.

OMB Funding Title/Cods: Management of Lands and Resources / 14-1109-0-1-302.

Cengrasional Relevance Heuro Committee on Agriculture; Houre Committee on Appropriatons: Interior Subommittee; Houre Committee on Interior and Insulte Affairs; Songer Committee on Agriculture; Nutrition, and Percetty; Streame Committee on Appropriations: laterior Subcommittee; Sonare Committee on Energy and Natural Resources.

Data Base Reference: S-00714-010

Subject Terms: Continental Shelves; Land Transfors; Losses

Purpose: The system processes information related to the sub of Oaser Costinuational Sheff tracts. The input data are edited, and the total appaned bid amounts are audited. *Input Lease-sub oftware* (input by the Oattievent Sheff offices as also occur. Contex-The system covers all Oater Costinental Sheff sales as they occur in various geographical areas. *Output: System may reports are genrated. AvaileNife*: Reports may be available, but confidential data will be deleted.

Agancy Context: Chief; Division of Mineral Resources; 18th and C Streets NW, Washington, DC 20240; (202) 343-2721.

332

Land Base System.

OMB Funding Title/Cods: Management of Lands and Resources / 14-1109-0-1-302.

Congressional Relevance: Heurs Committee on Agriculture; Hours Committee on Appropriations: Interior Solecommittee; Hours Committee on Interior and Insular Affhirs; Senate Committee on Agriculture; Nutrillon, and Prostry; Strate Committee on Appropriations: Interior Subcommittee; Senate Committee on Energy and Natural Resources.

Data Base Reference: S-00714-011

Subject Terms: OR Shales.

Purpose The system is limited to show load is where limit in the oil also be textending respirant. As not in any to scenificated a support system or advaptore of the OII Should Becoming Title Common System. Space The system cannot basic aggregation, limiting, and other accellant of Colorado, Wyemila, and Unik. Common Date for the mestime involved containt. Mater Title Plan, appresenting, and use and information to support serves il limit or resceive applications with, in this advataria array and public inquiry-respirate within the mestiment. One after Plant basic hand have respect set cospit. A methoding these strengthed containts are offened on the state strengthese strengthese the strengthese these to the state strengthese these these strengthese strengthese these these strengthese strengthese

Agancy Contacts Chief; Division of Mineral Resources; 18th and C Streets NW, Washington, DC 20240; (202) 343-2721.

333

Lease Management System.

OMB Funding Tills/Code: Management of Lands and Resources / 14-1109-0-1-302.

Congressioned Enivernes: House Committee on Agriculture; House Committee on Appropriations: Interfact Subcommittee; House Committee on Interior and Insults Affairs; Sense Committee on Agriculture; Nutrition, and Percetary; Snaves Committee on Appropriations: Interior Subcommittee; Sense Committee on Energy and Natural Resources.

Dato Base Reference: 5-00714-013

Subject Termas Dilling; Compliance; Contracts; Lesses.

Purpose: This system supports billing and compliance checking, procedures for all leaster. Juyar Losse transitions, geographic data, and billing data are input from Burosu office files. Convert All leasts in effects are included. Object "Thirty-two reports are produced, generally concerned with transactions, geographic data, and infinistrative information. Availability: The reports are available

Agency Centert: Chief, Division of Mineral Resources; 18th and C Streets NW, Washington, DC 20240, (202) 343-2721.

334

upon request.

Library of Executed Electric Power Contracts.

OMB Funding Titls/Code: Operation and Maintenance / 14-5064-0-2-301.

Congressionel Relevences House Committee on Appropriations: Public Works Subcommittee, House Committee on Interior and Insular Athine's Source Committee on Appropriations: Public Works Subcommittee; Sesan Committee on Energy and Natural Resources.

Data Base Reference: S (0716-001

Sobjest Terrer: Contractors; Contracts; Electric Power Generation; Libracies; Powerplants; Public Utilisies.

Parpeter Under reclamation law, the Secretary of the Interior is authorized to market power generated at various reclamation projeots and at certain powerplants constructed by the Corps of Englneers. To accomplish this, the Bureau of Reclamation has entered into electric service contracts with preference customers and private utilities. In addition, transmission and interconnection contracts are required to transmit federally generated power from the powerplants to distribution points. This library serves as a contralized collection of these contracts for the use of Burenu management and other interested parties in contract administration. Input: These service contracts are negotiated between the Federal Government and private utilities or preference customers which include municipalities. rural electric cooperatives, State agencies, Federal agencies, Indian tribes, public utility districts, and irritation districts. Content: This library provides a contralized collection in Washington, DC for executed electric service contracts, interconnection and transmission service contracts, and other related contracts. General terms of electric service contracts include quantity of power sold (contract rate of delivery); delivery conditions, including points of delivery, delivery voltage, and points of measurement; and a rate schedule. General terms of interconnection and transmission contracts include amounts of power to be transmitted and to whom, points of interconnection, and a rate schodule. Output: No additional output is supersted. Availability: The output is publicly available.

Agency Contect: Division of Power; 18th and C Streets NW, Roam 7612, Washington, DC 20240; (202) 343-5337.

335

Plant Operation and Power Scheduling.

OM8 Funding Title/Code: Bonneville Power Administration Pand / 14-6045-0-3-301.

Congressioned Relavance House Committee on Appropriations: Public Works Subscrumittee, House Committee on Interdor and Insuite Affinis, Somer Committee on Appropriations: Public Works Subscrumittee, Sense Committee on Energy and Natural Resources.

Data Sase Reference: S-00718-004

Subject Terms Electric Power Generation; Hydroelectric Power; Power-planis.

Purpose: The primary objective of the plant scheduling process is to propare generating schedules at reservoirs directly contributing to the Podersi generation requirement to meet BPA loads and obligations to intercompany utilities while utilizing available resources in the most efficient manner possible fusar. Input is predominantly internal real-time data from RODS system (Real-time Operations, Dispetch, and Schestuling) and natural flow forecasts. Content: This is a model of the BPA hydrogenerating system with select non-Federal unstream regulating reservoirs. The program regulates the system hydraulically and electrically, on or off control, to satisfy a given load condition. The resulting schedules are used both as a base for realtime control of the generating system through automatic load freguency control techniques and generation dispatching and to provide data on probable operations. The scheduled generation is projected up to five weeks into the future in 1-hour increments for the first 48 hours, then 8-hour increments for the rest of the first 2-week period. The last three weeks of the scheduling period consist of a 1-week average period. This provides a link between the immediate operation and the analysis of seasonal loads and resources. Outside The major output is a daily hardcopy report. There is CRT query capability. Averlability: BPA customers and many other interested parties are provided with an indication of the probable Pederal system operation through this report.

Agancy Contoct: 18th and C Streets NW, Roam 5600, Washington, DC 20240; (202) 343-6955.

336

Power Flow Program.

OM8 Fusefing This/Code: Bonneville Power Administration Fund / 14-4045-0-3-301.

Compositional Railwandon: Hoare Committee on Appropriations: Public Works Subcommittee; Hoare Committee on Interior and Insular Athinit, Sovier Committee on Apropolitions: Public Works Subcommittee; Service Committee on Energy and Natural Resources.

Date Base Reference: S-00718-005

Subject Teams: Electric Power, Hydrotheotric Power; Powerplasts; Public Utilizes

Purpose: This program solves the AC power flow problem for systerms of up to 2,000 busses. The program is BPA's basic system planning tool. In addition, this program supports power system operation, especially the planning of scheduled outages. Awar: Input for power flow studies comes from within BPA, the Corps of Engineers, Bureau of Reclamation, utilities in the Northwest Power Pool, BPA industrial customers, and the Western Systems Coordinating Council. Conteat: System source data include load forecasts, substation characteristics, power system configuration data, line characteristics, and generation data. Power system planning is based upon an annual evole, and the data are undated annually. Owner: The major output types are computer listings with electrical parameters, hardcooy oneline diagrams, graphic terminal one-line diagrams, and microfiche intings with electrical parameters. Base case data and some output are saved on magnetic disk and magnetic tage, and the power flow program is used several times each day. Availability: Output is generally for internal use. Some output is abared with Northwest utilities and some with members of the Western Systems Coordinating Council. There is no personal informatico in the output.

Agenty Centect: 18th and C Streets NW, Room 5600, Washington, DC 20240; (202) 343-6955.

337

Real-Time Operations, Dispatch and Scheduling (RODS).

OM8 Funding Title/Code: Bonneville Power Administration Pund / 14-4045-0-3-301.

Congruisational Roleveness: Houre Committee on Appropriations: Public Works Subcommittee, Houre Committee on Interior and Insubar Affaire, Sonate Committee on Appropriations: Public Works Subcommittee; Sonate Committee on Boregy and Natural Resources.

Data Base Reference: 5-00718-006

Subject Terms Electric Power Generation, Hydroclectric Power; Powerplants; Public Utilities.

Parpene: The RODS system is a complex of digital computers providing the basic support for power scheduling and dispatch for generation and transmission. Initial functional applications were Automatic Generation Control which matches generation to internal load and to hourly schedules with external utilities while preserving frequency at 60 Hz: Scheduling and Forecasting, a substantial set of operation functions for hourly coordination of hydro resources and loads including power interchange and intertie schedules, streamflow schedules, system load forecast, hydroelectric generation schedules, and monitoring; and Data Acquisition and Display programs, a set of functions linking all other program groups to the hardware data acquisition systems. Input: Data acquisition programs service hardware such as kWh, hydromet, powerhouse, teletype, load frequency control, SCADA, etc. Display programs provide link through the console hardware for all user input requests and output to CRT displays, console annunciators, and hardoopy devices Content: Block transfers of system data move over kilobit channel from SCADA to refresh data files used by RODS applications programs and to undate RODS display formats every 10 seconds, RODS subsystems at the Dittmer Control Contex are used to oppiralize control of main grid substations. The center controls major generation at hydroelectric projects of the Federal Columbia River Power System. Genne: Output is available through CRT displays, microwave, console annunciators, and hardcopy devices. Availability: Output is generally for internal use. Some output is abared with Northwest and Southwest utilities.

Agancy Contect: 18th and C Streets NW, Room 5600, Washington, DC 20240; (202) 343-6955.

111

Supervisory Control and Data Acquisition System (SCADA).

OM8 Funding Title/Code: Benneville Power Administration Fund / 14-4045-0-3-201.

Congressional Relevances House Committee on Appropriations: Public Works Subcommutee; House Committee on Interfor and Insubr Affinirs, Sower Committee on Appropriations: Public Works Subcommittee; Stewar Committee on Energy and Natural Re-Sources.

Data Base Reference: S-00718-008

Sibjed Terma: Electric Power Generation; Hydroelectric Power; Powerplana; Sabatation Control.

Paymer SCADA provides direct support to dispatch and operation of the transmission system and includes remote control of substations. Control of a large number of substations is centralized through the master station. Japat: A high volume of data is collected from each remote substation including power circuit breaker position (open or closed), buss or transmission line voltage, transmisslog line or transformer MW and MVAR readings, transformer tap changer positions, transformer bank or reactor temperature readings. station slarms, and hot line indicators (energized or not). Content: Master station hardware with remote units is located in Washington. Oregon, Idebo, and Montana. The primary and secondary systems provide a volume of data and control through a 2.5 second update cycle from all remotes. Output: SCADA computers drive annunciator lights on the dynamic group display boards of transmission grids. Illuminated lights indicate the field breakers and hot line indicators or switches that are open in the networks. In addition, output is made to consoles, microwave, and RODS. Data are associated with daily operation of the system. Asoliability: Output is generally for internal use. Some output will be shared with the Northwest utilities.

Agancy Contacts 18th and C Streets NW, Room 5600, Washington, DC 20240; (202) 343-6955.

339

Planning and Billing System.

OMB Funding Title/Code: General Investigations / 14-1501-0-1-301: Oncestion and Maintenance (14-1300-0-1-30)

Congressional Relevances Haue Committee on Appropriations Public Works Subcommittee; Houre Committee on laterior and Insular Affairs; Houre Committee on Public Works and Transportstion; Senser Committee on Appropriations Public Works Subcommittee; Sonar Committee on Barray and Natural Resurrects; Houre Committee on Environment and Public Works.

Data Base Reference: S-00719-001

Subject Tenns: Electric Power, Energy Planning; Hydroelectric Power, Powerplants.

Purpose: The Alaska Power Administration (APA) has assienments in planning for the development and use of Alaska's water. power, and related resources, and in power systems and power manket studies. APA operates, maintains, and markets the power from Federal hydroelectric projects and represents the Secretary of Interior in Aleska on nower matters. Janut: The data are internal APA power projects provide project sales and revenues for power sold to local utilities. Content: Projects provide monthly reports of electrical coerey sold to peresit payer billings to customers. Engrav reports submitted by the projects are used in the preparation of secural reports to the Federal Power Commission. General investigations studies are conducted to determine the most economical and appropriate means of development and utilization of water, nower, and related reasoners, and to represent the Secretary of the Interior in Alaska on power matters. Output: The major output types are power reports of energy produced, fossibility reports on proposed power projects, and special study reports on water resources. Reports are manually prepared. Annihibility: The reports are publicly available. Primarily the data are used for internal purposes.

Agency Contoct: Alaska Power Administration; P. O. Box 50, Juncau, AK 99802; (907) 586-7405.

ENVIRONMENTAL PROTECTION AGENCY

340

Technical Assistance Data System (TADS), 10075.

OMB Funding Title/Code: Abatement and Control / 68-0108-0-1-

Congressional Relevance: Host Committee on Appropriations: HUD Independent Agencias Subcommittee, Hour Committee on Interstate and Portigin Commerce Hour Committee on Public Works and Transportation; Sense Committee, Sense Committee (HD)-Independent Agencies Subcommittee, Sense Committee Commerce, Science, and Transportation; Sense Committee on Environment and Dullie Works.

Data Base Reference: 5-02300-017

Subject Termes Hazardoan Substances; Oli Spills; Pollatori Control; Water Pollation

Pupper TADS is to reduce the effects of ell and homenous materials split by providing avoid as easies is informations on management of the split split split split split split split and split Materials Capturel Division of the Chicage Material Split split Materials Capturel Division of the Chicage Material Split split heat split each substance. To recover information from the filts, the aver specifiest assume 3 in of energy for a strength and the strength and the in green, Bases, and attach like retire tagg or to be detailed by information in the event of the strength and the strength and the detailed of the strength and the strength and the strength and a strength and the strength and the strength and the detailed of the strength and the detailed of the strength and the first and the strength and the strength and the strength and the first and the strength and the strength and the strength and the first and the strength and the strength and the strength and the first and the strength and the strength and the strength and the strength and the first and the strength and the strength

Agancy Contoct: Office of Water Program Operations; 401 M St. SW, Washington, DC 20460; (202) 245-3045.

341

Every Data Sistem (EDS), 10257.

OMB Funding Title/Code: Abstement and Control / 68-0108-0-1-304.

Congrassional Relevance: House Committee on Appropriations. HUD Independent Agencies Subcommittee; House Committee on Interstate and Poreign Commerce: Source Committee on Appropriations: HUD-Independent Agencies Subcommittee; Source Commitee on Environment and Public Works.

Date Base Reference: S-02300-022

Subject Tennie Air Pollution; Emissions; Energy, Environment; Fiel Constumption; Pollution Control.

Purpose: EDS provides management with a flexible energy-environmental data base for evaluating problems associated with stationary source fuel usage, fuel quality, compliance with emission regulations, and related effects on air quality. The Office of Air Quality Planning and Standards uses the prepared reports for evalnating proposed compliance strategies or changes in emission reaulations. Jonut: The EDS contains data collected primarily by other Rederal assessing and other distaines within FPA. The Rederal Power Commission provides Form 67 and 423 data; the Monitoring and Data Analysis Division survives air quality monitoring data from the SAROAD system and emissions data from the NEDS system. Data concerning emission resulations and source compliance schedules are supplied primarily by EPA's Division of Stationery Source Enforcement and the Office of Air Quality Planning and Standards. In addition, industrial organizations, such as the Edison Electric Institute, contribute supplementary information occasionally. Content: The system integrates all energy-related data presently in EPA's data banks (e.g., SIPS, NEDS, SAROAD, FPC-67, CDS) into ono data file for quick-response, interactive access by EPA's Strategies and Air Standards Division. Output: Requested reports contain a wide range of energy information and cover such specific areas as fuel use summaries by geographical region and by fuel-consuming categories. emission and equipment installed at large fuel-burning sources, regulations applicable to large fuel-burning sources, compliance schedules and status, modeling results for large powerplants, and sir quality data in the vicinity of large powerplants. Availability: Data are publicly available.

Agancy Contact: Office of Air Quality Planning and Standards; Research Triangle Park, NC 27711; (919) 629-5201.

342

Spill Prevention Control and Cauntermeasure System (SPCC3), 16332. OMB Preventing Title/Code: Abstancest and Control / 68-0108-0-1-304.

Congressionel Relevances Hauss Committee on Appropriations: HUD Independent Agencies Subcommittees, Heure Acammittee on Internatis and Potelpa Commerces, Super-Committee on Appropriations: HUD-Independent Agencies Subcommittees, Suest Committee on Commerce Science, and Transportation.

Dote Base Reference: S-02300-024

Subject Teams: Accident Provention, Hezardous Substances, Oil Spills, Oil Storage, Pollution Control; Water Pollution Control

Purpose: SPCCS is a tracking and reporting system used to monitor and report on compliance deadlines and actions to be taken for the prevention of spills from incilities storing oil and hazardous materials. Personnel from the Oil and Special Materials Control Division (OSMCD) and technical specialists in the regional offices use data in the automated file to initiate spill prevention plan reviews, compliance inspections, and penalty assessments. The system is also used by the Coast Guard to obtain information on cil spills which have been reported to EPA but which fall under the purview of the Cosst Guard for penalty assessment. Input: The data base is being orested from the input data being encoded by regions from information about oil storage facilities, spill reports, and enforcement reports. Content: Nontransportation related facilities storing of are required by law and Federal regulations to perpare still prevention control and coustermeasure plans and to report oil spills to EPA or the Coast Guard EPA has been empowered to emend facility SPCCS plant which are not successful at preventing spills, perform compliance inspections, request information pertinent to spill control, and role on extensions of plan preparation and implementation deadlines. Anoroximately 5 000 oil storage facility records are expected to enter the system annually by way of reporting a spill or requesting a plan to be prepared. When it first enters the system, each facility generates an individual record. Each facility record will have 91 data elements of information. An estimated 24,000 update transactions a year will be required. Examples of the specific types of technical information coded into the file are: type, amount, cause and data of the spill, the body of water where the spill occurred, type of violation, and type of spill removal method used. Output: The specific types of reports which are prepared monthly from the data base are: description of spills which initiate the SPCCS Plan review and amendment process; list of facilities whose SPCCS Plan Reviewa are pending; the status by region and facility of amendments in progress; a list of violations by facility and type of violation; a list of Incilities required to respond to a Section 308 letter and who have not complied by the due date; and ad hoc reports listing by region the number of extensions granted, inspections performed, spills occurring, the causes of spills, the sources of spills, and spill descriptions. Availability: Data are publicly available.

Agency Contects Office of Water Program Operations; 401 M St. SW, Washington, OC 20460; (202) 245-3045.

FEDERAL ENERGY ADMINISTRATION

343

Federal Energy Conservation Performance System, 6069.

OMB Puoleg Titu/Cade Salaria ad Express (22:1900-0-198); Cargensided Titu/Cade Salaria ad Express (22:1900-0-198); totior Soboromitteen / House Committee on Appropriations Intorior Soboromitteen (House Committee on Covernanti Opention, House Committee on Appropriations: Insteine Subcommittee, Server Committee on Appropriations: Insteine Subcommittee, Suber Committee on Commerces, Selarce, and Transportations; Senser Committee on Energy and Natural Resources; Senare Committee on Governannia Marin,

Dote Bose Reference: S-02300-004

Subject Terms: Energy Consumption; Executive Agencies.

Paymer: This system is intended to collect information as the performance by the Pederal Government in solvinity improved energy efficiency in its own facilities and operations. The subscript for the collection of data is the Persidential Order of Lees 20, 1973. Asput: input is provided by 27 of the more energy coccuming Polenti specifies, such as the Department of Defense, Potal Service, GSA, and the Department of Transportation. Context The context is a ergy consumption by type of the by Polenti specus). The percent charge is compared to the previous year's consumption. Information is collocted quarterly on a national basis. Output: Annual reports provide information on energy usage by various thei types by Federal agency. Analohilly: Output is publicity available in the Federal Energy Management Program's outbleation "Benery Conservation."

Agancy Context: National Energy Information Center; 1200 Penesylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

344

Project Conserve 6141.

OMB Funding Title/Code Salarisa and Expenses (20.1500-0-1.30) Compared tools Mixenzer. Howe committee on Appropriations Interior Stocommittee, Hone Committee on Government Opentions. Howe Committee on Experiptions Instrume Subcommittee Senate Committee on Commerce, Science, and Transportations, Senate Committee on Energy and Naturel Researces; Senate Committee on Governmental Antales.

Date Base Reference: S-02500-005

Subject Terms: Community Perticipation; Energy Conservation; Housing Characteristics; Insulation, Recrofiting.

Parmere: The purpose is to enable hometowners to furnish cartain characteristics of their dwellings and in return meeting advict on what types and quantities of insulation materials to add and an estimate of yearly energy savings. Input: Information is collected voluntarily from homeowners who wish to partscipate. FEA has conducted a mogram for Massachusetts and New Mexico, receiving voluntary responses from approximately 142,000 and 26,000 homeowners, respeet/vely. FEA is now offering the computer programs and documentation to States interested in running their own programs. Genent: The system content costains housing unit characteristics such as square footage, number of windows, number of doors, age of dwelling, and existing insulation characteristics. Output is printouts to homeowners suggesting types and amounts of insulation materials needed and potential energy savings to be realized. Availability: Individual homeowner information is subject to the Privacy Act. A report covering the results of a pilot survey relating to Project Constrve was published in October 1974.

Agency Context: National Energy Information Center; 1200 Pennsylvania Ave, NW, Room 1411, Washington, DC 20461; (202) 566-9025.

345

Automobile Classification Data Base, 6290.

OMB Fereiling Thin/Cash: Stahrist and Expenses (21:1900-01-103). Compressional Stateworte: *Hauer* Committee on Appropriations Interior Staboonnititee, Hauer Committee on Overnment Opentions, House Committee on Horeira Commerce; Senax Committee on Commerce, Selection, and Transportations. Neuroir committee on Desnya and Natural Resources; Senaer Committee on Committee on Benzy and Natural Resources; Senaer Committee on Governmental Minis,

Data Base Reference: S-(0900-005

Solijest Termes Automobiles, Classification Systems; Energy Contervation; Feel Conservation; Gaseline.

Propues The system is to enable F&A to assist EPA to prove uses with initial expansion interact, and an an employed and a promotion more, or all autos over 16 feel long). Within seeh group, and the manufacturer's accounded to predictations. Content approximation are used in the state of the state of the state and the state of the state of the state of the state of the approximation are used in the state of the state and a state of the state of is publicly available in the 1977 Gas Mileage Guide published jointly by the Brovironmental Protection Agency and the Federal Energy Administration.

Agancy Contact: National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-5025.

346

Electric Rate Demonstration Data System. 6318.

Both Fording The/Cenn Statistics, and Bothesen (72-150-b) 1-02. Compensional Latername Hume Committee on Approximations Interior Statement Hume Committee on Generative Committee Statement Committee on Appropriations Interior Subcommittee One Science Committee on Appropriations Interior Subcommittee Subare Committee on Commerce, Science, and Transportations; Show Committee on Denryr and Neural Resources; Shast Committee on Generative of Maria.

Data Base Reference: 3-02503-007

Subject Terms: Bloctric Utilitase; Bloctric Utility Rates; Energy Consumption, Energy Prices; Prices; Utilities.

Purpose The system is for itemping more back the effect that yake changes and load management technologous may have an destrict adjuticit, at stilly enteneurs, and energy strategin. This will assas Space regulatory intraduced in their devisions regularized destrict adjust promate with Shate and load personant agrancia. Canser: The loformation in the filt into the state of the strateging destrict adjust promate with Shate and load personant agrancia. Canser: The loformation in the filt into the strateging data strateging data for related by strate, and selected data for strategical analysis and modella, *Guage Learnow* will how how extramed for detection argy is afforded by price. Availability: Chao: Ite years how enous ofpersonal the strateging information Canser.

Agency Contert National Energy Information Conter; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

347

Middle Distillate Price Manitaring System. 6006/6104.

ONB Funding Title/Code: Statisfic red Expenses (72-1500-0-1-05): Comparisonal Barbarones: Honey Commission of Agrophical Interior Subcommittees (Hauey Committee on Gerenment) Optitienter Subcommittee on Intervision and Percilia, Commerces, Senart Committee on Expensions: Interior Subcommittee, Siner Committee on Commerces, Selection, and Transportation, Shoring Committee on Energy and Naural Resources; Senare Committee on Gerenmental Afala.

Date Sate Reference: S-02500-008

Subject Termis Energy Prices; Fuch; Heating Oil; No. 2 Heating Oil; Price Regulation; Prices.

Parpose: On July 1, 1976, Middle Distillates (No. 2 heating oil and No. 2 diesel fuel) were exempted from mandatory petroleum price and allocation regulations. The Middle Distillate Price Monitoring System was developed to track price trands of middle distillates at the refinery, retail, and wholesale levels. Monitoring of these price trends is necessary to assure that no abnormal price increases occur and to ensure adequate supplies to marketers during the transltion period following decontrol. The system compares actual reported prices to national and regional index representative price levels, which PEA believes would have prevailed had middle distlilates remained under price controls. Input: The data are derived from monthly reports submitted by a scientifically selected sample of firms which sell No. 2 heating oil. From September 1976 through March 1977 the system is updated on a weekly basis with critical data obtained by telephone from the respondent companies. Content: The system consists of onles volume, percentage sales, average selling prov, not averatory data. Sileministics are made monthly and are blocked owe by upper of oursancer and by State. Reidential tables and volume data are collected weekly from September through March. Output: Major reports are produced on a monthly/weakly basis and constit cyclicatify of nake volume data and weighted average selling protect 90. A Detaming of an expensional and maintoil basis. Anolefishtion Benger Biofermation of an expensional and maintoil basis. Anolefishtional Benger Biofermation available through PEA's Nutional Benger Biofermation.

Agency Contest: National Energy Information Center; 1200 Pennsylvania Ave. NW, Rocas 1411, Washington, DC 20461; (202) 566-9025.

348

Refinery Cast Pauthrough 6008/6105.

OMB Fewding Tife/Code: Salarida and Expenses (20:1500-0-)-302. Comparational Salarinan: House Committee on Appropriations. Interior Subsonnitizee, Houre Committee on Government: Openticat, Houre Committee on Horteria Commerce Saver Committee on Appropriations: Interdor Subcommittee, Saver Committee on Benzy and Natural Resources; Sense Committee on Governmental Athlink.

Date Rase Reference: 3-03503-009

Subject Terres: Ecorgy Prices; Paels; Gasoline; Henting Oil, Jet Pael; No. 2 Heating Oil; Petroleum; Price Regulation; Prices, Propute, Refineries

Angene The pyttem nerves as the means by which refaces andpice to the PER A forebane Pricing Regulations compare and adjust May 15, 1973, setting prices for covered produces (No. 2 dail), les (noi, patients, and proposed). This show PEA to monitorize termin produtions and national gas processing pictus. Conserve: The coveners includes the cost and number of improved and domainst enter profession and the products limited above. Data are collected anomaly on a suitable lastic, dongles: Birztony manuface of consideration profession and the products limited above. Data are collected anomaly on a suitable lastic, dongles: Birztony manuface of conditionation Pablishy relaxable information is anomable through PEA's National Pablishy relaxable information is anomable through PEA's National

Agency Contest: National Energy Information Center; 1200 Pennsylvania Ava. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

349

Propent/Batene Allocation System, 6025.

ONB Funding This/Code: Statistic and Expenses (21:1900-0-1-30). Comparational Balaneses: Hassa Committee on Appropriations: Interior Stukomanitee in Areau Committee on Gorenamese Opention, Hoave Committee on Appropriations: Interior Subcommittee, Second Committee on Appropriations: Interior Subcommittee, San eva Committee on Commerce, Second: cond Traingourtains, Second Committee on Benergy and Natural Resources, Second Committee on Gorenamental Affais.

Data Base Reference: S-02500-010

Subject Teams: Buzzer: Paris; Inventories; Natural Gas; Oli; Propane; Resource Allocation.

Purpose: The system was developed to enable the TRA to moniterating and proposed interactions of proposet, basies, and other enables and the system of the system of the system of the first based on part many and to identify the location and an anount of these their approximation of the system plane, not the induced system of the system of the system facilities for the owner products. Owner A data and project facilities for the owner products. Owner A data and project constructions of the system of the system of the system facilities for the owner products. Owner A data and a project most products are sported prostilly on a matistant basis. Output Production and inventory level reports are produced monthly. Aunitability Publicly releasable information is available through FEA's National Energy Information Center.

Agency Cantorn National Energy Information Center, 1200 Pennsylvania Ave NW, Recm 1411, Washington, DC 20461; (202) 566-9025.

350

Crude Oil Buy/Sell Program. 6031.

OM8 Fueding Thin/Code Statistics and Exposers (V-1100-0-1-100-Comparature of Editoream: *Houre Commitsee on Appropriational* Interior Studoumitistee information of Convertment Optimtiony. *Hous Committee on Appropriational* Encounteres; Sense Committee on Appropriations: Interior Subemonistree, *Same* Committee on Commerces, Sense, and Transportation, Score Committee on Encorps and Natural Resources; Sense Committee on Committee on Marcin Actual Resources; Sense Committee on Committee on Marien.

Date Base Reference: S 02900-011

Subject Teres: Crude Oil, Petroleum; Refineries; Resource Allocation.

Purpose "This is a system to televate code of to ensure that small an independent relation as set to a processing without the standard of the operate at a consonically feasible production term, for historical terms are required to other to one touch the anneum which other refines are equipate to other to one touch the anneum which other refines are equipated to other to one touch the anneum which other refines are equipated and the standard term of the standard of the standard term of the standard term of the madatory allocation program. Output: A quartery boy/relif into produced, and testing the standard term of the standard term

Agency Contort: National Energy Information Center; 1200 Pennsylvanin Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

351

Transfer Pricing System. 6047.

OMB Frending Title/Code Staters and Expensel '42-1500-0-1-302. Comparison Bitwomer. How Committee on Appropriations interior Subcommittee in Hard Contraintee on Government Operations. How Committee on Interesties and Rereign Commerce; Server Committee on Commerce, Selections Interface Subcommittee, Suare Committee on Commerce, Selection, and Transportations, Source Committee on Beary and Natural Resource; Swaw Committee on Governmental Mathis.

Data Base Reference: S-02900-012

Soluter Terms: Crude Oil Impacts; Imparts; Petroleum, Prices

Parson: The objective of the Program is to monitor and regulate the prices at which oil companies transfer equity crude oil from their foreign to domestic affiliates. Such regulation is needed because of the cost passthrough provisions of the Emergency Petroleum Alloostion Act of 1973. The FEA stiempts to control these transfer prices by comparing them with prices from transactions involving the same or similar crude types that were conducted on an arm's-longth basis. When a company's transfer prices for a siven crude exceed the arm's-length standard established by the FEA, a disallowance of cost is proposed. Input: The data are derived from reports submitted monthly by each refiner which imports \$00,000 barrels of crude cill during the month and/or each refiner which imports crude oil from an affiliated entity during the month. Content: The system consists of information concorning imported erade petroleum obtained by purchase and through exchanges, cost data for imported equity and buy-back oil, crude petroleum sales and purchases, fereign crude trading activity by country of origin, and grade obstanteristics data. Output: Output reports are generated monthly in hardcopy. Reports provide data on the high, low, and average transaction prices. Companies whose transaction prices exceed the computed average transaction price are subject to the issuance of a notice of distillowmace, Availability: Publicly releasable information is available through PRA's National Energy Information Center.

Aganty Contoch National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

352

Crude Oil Entitlements (Equalization), 6072.

OMB Feeding This/Code: Salares and Expenses (72):1500-0-1-05. Cognational Battereater, Haas Committee on Appropriations Interfor Subcommittee on Iteratize and Foreign Commerce, Josse Committee on Appropriations Interior Subcommittee Savare Committee on Commerce, Selares, and Transportation, Savar Committee on Commerce, Selares, and Transportation, Savar Committee on Commerce, Selares, and Transportation, Savar Committee on Theory and Natural Resources, Savar Committee on Governmental Afrais.

Date Sate Reference: S-02502-014

Subject Teenss: Crude Oil; Energy Prices; Inventories, Petroleum, Prices; Re-Eneriet; Resource Allocation.

Purpose: The system is to collect and process data on crude oil purchases which will be utilized to establish the monthly entitlements buy/sell position of each domestic refiner. This system supports the orade oil allocation program for the purpose of ensuring the maintenance of competitive domestic marketplace for all refiners regardless of size. Input: External input is provided by refiners of domestic and imported crude oil (140) and importers of residual oil (53). The forms are filed monthly by the fifth day of the second month following the month of operation. The reporting requirement is mandatory. Content: The system provides a listing of current volumes and weighted average opsts of various categories of domestic and imported crude oil which is booked into refinery inventory by each domestic refiner for processing. Other data elements are adjustments to estimated volumes for crude oil from erior months; total orude runs to stills: required sale/purchase of entitioments; biss and execution relief, where applicable: and domestic crude oil supply ratio. Output: The principal output is historical cost comparison report, a calculations report, a Federal Register report, and a processing agreement crosscheck. These are issued monthly and are hardcopy. Availability: Individual company reports contain proprietary information and are not publicly available. Monthly entitlemont notices, with values and huy/sell requirements, are published in Federal Energy Onidelines and in the Federal Register.

Agency Contects National Energy Information Center; 1200 Penntylvunia Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

353

Mandatory Oll Imports Project (MOIP), 6127/6313.

OMB Funding Title/Code: Saluries and Expenses / 72:1900-0-130. Comparison Balanceans: Hease Committee on Aproprisibate for tarior Stokonumittee. Heave Committee on Greerzment: Opention. How Committee on Expension Instein's subcommittee Sanaer Committee on Appropriations Instein's subcommittee are Committee on Commerce, Salure, and Transportations: Sanaer Committee on Commerce, Salure, and Transportations: Sanaer Committee on Bancy and Natural Resources; Sanaer Committee on Savernnectal, Affais.

Data Base Reference: S-02900-015

Subject Terms: Imports: Petroleum Imports: Resource Allocation-

Purpose: The system is an accounts receivable system. It stores, retrieves, and processes data on imported petroleum and petroloup products for the purpose of administering the Mandatory Oll Import Allocation and Licenzing Program in accordance with Presidential Proclamation 3279. Apage: The data are obtained from other Govcrument agencies and firms, including parent, subsidiary, or affiliated firms, which have incurred feet for the importation of ende eil. unfinished cits, and finished netroleum neoducts during a particular month. Content: The MOIP system contains data taken from allocations licenses consumption entry forms refund documents and remittance advices These documents reflect the transmissions of anproximately 700 companies which import petroleum and petroleum products. The consumption entry forms are received daily from the Customs Offices in each district. They provide data on the number of barrels, type of product, duties paid, and hornse(s) to be charged for each importation. Output: Output is preduced as required and includes: Fees incurred, transaction lists, importer transaction lists, importer master list, current bands last, importer allocation summary allocation report current licenses issued current licenses listed check navments accepted, new bonds/rider, unaccompanied payments, additions to license table, suthorized refunds to be issued. shipment discrepancy, potential refund qualification, overdoe accounts, closed licenses, shinments in excess of license amount, shinments made against expired licenses, crude and unfinished oil imports, finished and other petroleum, and residual fuel. Availability: Publicly releasable information is available through FRA's National Rotray Information Center

Agancy Contact: National Energy Information Center; 1200 Pennsylvania Ave. NW, Rosen 1411, Washington, DC 20461; (202) 566-9025.

354

FEA Oil Import System, 6253.

OMB Funding Titler/Cade Salurice and Expenses (26:1500-61-36). Comparatured Nationeans: How Committee on Appropriational interior Stotomanitics in Resear Committee on Appropriational interior Stotomanitics on International und Foreign Commerce; Senart Committee on Comperçuisiona: Interior Subcommittee Subard Committee on Commerce, Senarto, and Transportationa; Subart Committee on Energy and Natural Resources; Senart Committee's Movernmental Africa.

Data Base Reference: S-02900-017

Subject Termu Crude Oil Importe; Importe; Ori; Potroleum Importe.

Proper The system provides the nears by which firms report due to the imperiation of crate of lug-filterable of has and halfsheet is an infrared or crate of lug-filterable of has an infrared an infrared or field and field in the Table of the second of the system to Pakille and VS-757 std 0-1-19, as an enclud, and Pacidenial Proteinstance TATs. Jones University is a second of the provide periodic protocols of the second of the system is updated on a methyle has and contains information is filter an encludy profilter periodic protocols of the system is updated on profilter periodic protocols and product import. Owner: The two results of the system is and the system is a start of the protocol contains. In the system is a start of the protocol contains, in a addition, prime and the the availability of data symplets thread Table National Table Table National Contains.

Agamey Contorti National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

355

Crude Oil First Purchaser. 6272.

OMB Feeding Title/Code Sharins and Bipenson (2), 1500-C-1-30. Compressional Balancean Hours Committee on Appropriates Interior Subcommittee in Resure Committee On Government Opention, Hours Committee on Appropriational interior Subcommittee in Appropriation Interior Subcommittee Sanae Committee on Appropriations: Interior Subcommittee Subcommittee on Borzy and Natural Resources; Sease Committee on Governmental Maria.

Data Base Reference: S-02900-018

Subject Terms: Crude Oli; Damestic Crude Oli; Energy Prices; Petroleum Prices; Price Regulation.

Parmore This system, which was involvemented by authority of the Entry Policy and Conservation Act of 1975, calculates the composits monthly price of domestic crude oil based upon its first exchange. for value. This composite price is compared with maximum prices nermitted to determine whether additional regulatory actions are warranted. Aspat: Reports are from any firms that obtain ownership of demestic crude oil thruth numbers or other exchange. One test-Geographic coverage includes the 50 States and Paerto Rico. Data are reported monthly. Three bundred firms provide data showing the whene and book when of could all mechaned by type (orner tier lower tier, stripper), by location (State), and by individual producer/ operators. Output: The principal reports are: Domestic Crude Oil Volume and Price Analysis Summary: Domestic Crude Oil Volume and Price Analysis-Company Summary; and subsidiary reports, including Purchasers/Sellers Report and Volume/Costs Variance Excention Report. These are readured monthly and are hard-com-Availability: Price and volumetric reports are for limited official use. Individual company reports contain propriotary information and are not publicly available. Summary data are available monthly in the Monthin Receive Review

Agancy Contact: National Energy Information Center; 1200 Pennsylvania Ave., NW, Room 1411, Washington, DC 20461; (202) 566-9025.

356

Major Fuel Burning Installations (MFBI), 6217.

OMB Yorking Third Colas Saintin and Expenses (19:21:300-0-10:00 Comparison Bhoteneous Hava Committee on Appropriateus-Interior Subcommittee, House Committee on Overmentol Opertions, House Committee on Internet and Parcipa Commerce, Sanar Committee on Appropriations: Interior Subcommittee, Saer Committee on Commerce, Science, and Transportationio, Sanar Committee on Energy and Narural Resourcest, Senor Committee on Gevernmental Affinis.

Data Base Reference: S-03900-019

Soliject Teenes Cosi; Emergy Consumption; Energy Policy; Poels; Major Poel Burring Installations; Nateral Ose; Oil.

Parpase: This system collected information from major fuel burning installations (excluding utility companies) for the ultimate purpose of decreasing the use of scarce oil and natural gas as fuels and increasing the use of abundantly available coal supplies. FEA analyzed this information and identified firms which could be considered candidates to be issued a Federal order requiring that coal be used to fire the combustor. The analysis was made on the basis of such things as coal availability, environmental considerations, and the financial shillity of the firm to absorb costs isvolved in converting the combustor for coal use. Insut: Reports were completed by all major fuel burning installation (excluding utility companies) which had combustors with a designed firing rate of at least 100 million RT11/hr. Control: Information was collected on a one-time basis and includes fuel use data, combustor characteristics, and air quality data. Output: Listings of summary characteristics of individual combustors are produced. Availability: Publicity releasable information is available through FEA's National Energy Information Center.

Agency Centoric National Basergy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

Natural Gas Custalments 6219

OMB Funding Title/Coles Statistics and Experson 12:1100-0-1:302 Degressioleal Relativences Mass Constitute on Appropriations Intrivise Stocounitiese; Howa Committee on Government, Opentoors, Howar Committee on Appropriations: Interior Subcommittee; Son Autor Committee on Appropriations: Interior Subcommittee; Son et Committee on Commence, Science, and Transportations; Senser Committee on Energy and Neural Resource; Sense Committee on Governmental Affain

Date Rese Reference: 3-02900-020

Subject Terres: Energy Policy, Energy Shortages; Fuels; Natural Gas

Paraeter. The system was developed and implemented to collect data pertaining to natural gas shortages and to assess the resulting impact on alternate energy sources. Jugat: The data contained in the file for this system are derived from submission of reports from intrastate distributors of natural gas to end-use contempts (this system is operated jointly with FPC and includes data collected by PPC for interstate distribution of natural gas). Twelve-month historical data are gathered each summer along with a 12-month projection. Projected data are updated on a sample basis during the winter heating season. Coston: All reporting firms fumish basic delivery data for end-use customers by month for the past and projected beating years. Data pertaining to large end-use customers include individual accounts of deliveries, curtailments, and alternate fuel usage for the 2-year period. Each large customer is identified as to State and county in which deliveries are received, category of cartomer, type of service, SIC code, and FPC priority. Galant: Output is produced semiannually and includes State Assregated Delivery and Curtailment Data; Demand on Alternate Feel By Type, Supply, and Demand Alternatives; and Deares Day Data. Augilability: Results of the Gas Cortaliments Survey are tabulated in the publication Projected Natural Gas Curtailments and Potential Needs for Additional Altereste Fuels, which is publicly available through NTIS.

Agency Contect: National Energy Information Center; 1200 Pennsylvania Ave. NW, Roem 1411, Washington, DC 20461; (202) 566-9025.

359

Major Fuel Durning Installation-Early Planning Process Identification (SPPE), 6310.

OME Funding Title/Cele: Salaries and Bagenese / 92-1590-0-1-303. Compressional Balanceoux Hause Committee on Appenditiona Interror Subcommittee, Honor Committee on Generatine Opention, Houre Committee on Appropriationa Insteine Subcommittee, Sanar Sanar Committee on Appropriationa Insteiner Subcommittee, Sanar Committee on Barrey and Natural Resources, Sanar Committee on Governmental Africa.

Data Base Reference: 5-02903-021

Subject Terres: Coal; Energy Consumption; Energy Policy; Paels; Major Poel Burning Installations.

Poper. Dispetten will obtain themation fram make the property of theorem (the property of the property of the property of theorem (theorem (theorem(theorem (theorem (theore tion and individual combustor characterizator. This scotly is planned to be conducted on a non-fine basis. Comparison will subciti updates an necessary. Output: The output is the expected operational data for combustors and the expected conditions to be insued construction orders. Availability: Publicly releasable information is available through FEAN National Baceway Information Center.

Agancy Gentorh National Energy Information Center; 1200 Pennsylvania Ave. NW, Roam 1411, Washington, DC 20461; (202) 566-9025.

359

Drilling Easipment Production Survey, ERD-01,

ONB Feasing Third Code Scherion and Expanses (92) 1900-0-1903. Comparison Hill Warkness, Hance Committee on Appropriations Interior Solocomalities, House Committee on Government Opentione, Hause Committee on Interviewa and Peneiga Commerces, Sense Committee on Commerce, Senser, and Transportationa, Senser Committee on Berry and Natural Resources; Senser Committee on Generamental Alfrein.

Date Saue Reference: \$-02900-022

Sakjust Teenas Deliling Equipment, Equipment; Porecessing; leventories; OR Well Deliling.

Parmers: The purpose is to determine drilling equipment availabillity in certain years in order to forecast requirements in preparing National Entrav Outlook (NEO) and other future drilling forecasts. Input: The survey consists of collecting data through secondary sources in order to perform an analysis of the manufacturing companies that are supplying the principal elements of oil field drilling stainment. Content: The drilling equipment involved is rotary drilling rigs; oil country subular goods, including drill pipe, mobile and fixed drilling platforms; and surface equipment, such as, pumping units, sucker rods, electric motors, and steel tanks. The survey and lyzes actual or indicated manufacturing constraints. It also analyzes proposals recommending possible solutions. Output: The survey resuits will be prepared in a loose-leaf type report. This will be one report only, followed in two years with a comparable survey. Availability: Reports are for internal use only. Publicly releasable information is available through PEA's National Energy Information Center.

Agancy Context: National Energy Information Conter; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

260

Timute is Rolling's Openity and Utiliantian of Feriotean Rollinois the Me folial States on Homing Rolling Royania Centers ERD-02. OMB Heading Title/Cents States and Bapeness (F3):1500-0-1303. Comparational Statesmin States Committee on Appropriations the States Committee on Interesting and Participan Centeries States Committee Appropriations Interies Roheemistan, Strate Committee on Compare, States and Farsapacitions State States Committee Committee States and Participan Centeries and Committee Committee States and Participan Centeries and Committee Committee States Roheemistry States Committee States Committee Committee Committee Committee Committee States Committee Committee

Data Base Reference: \$402500-023

Sabiert Termis Foreign Countries; Imports; Petroleum Imports; Petroleum Refineries; Refineries.

Pergene This system monitors the growth of U.S. petroleum trfing capably and that of certain world refining accustors together with a 3-year forecast of work growth. It halps datermise whicher adoptest domesitor refining is being statistical or if forefage refining capacity is being constructed to support products to the United States. Append System input is from trade journels, newsppre, and mixedimecrossiliterisms sources, Buress of Mises historical acts, Office of Regulatory Programs treends. CA reports, and perdata, Office of Regulatory Programs treends. CA reports, and per-

Federal Information Sources and Systems

tonel costate visio compresso plotenza per capacity. Conten: The errors covered are the United States, Christens Johanna, Midde Bart, Estern Casada, Italy, Singapore, Nicherlanda, are will are obera. The system is publicated annually with evolution of the United States and Perception for fortigin expering centers, engent to the United States from foreign energies, and statyping evolution in the United States and foreign energies. An annual local foreign is podoced. Advisibility (Organ a publicly strated) in the Juliced States and foreign enters. Of statyping and the state of the theory of the States Norsign Selferry Expering Centers. In a stratebul Norsign Physical Neuroles Barry Information Center.

Aganey Cantaet: National Energy Information Center; 1200 Ponnsylvania Ave. NW, Roem 1411, Washington, DC 20461, (202) 566-9025.

361

Protect Operations System (POS), ERD-03-

ONB Funding Tatu/Code: Statisfie and Expresses (\$2):1900-0-1905. Cooperational Networkers: Hours Committee on Agrospitalisate Interior Sobocomittee; These Committee on Gavernment: Opertion; Toose Committee on Apropriations. Interior Subocomittee, Sa Sease Committee on Commerce, Science, and Transportation; Samor Committee On Statisfie Committee on Governmental Maria.

Data Base Reference: S-02900-024

Subject Terres: Demonstration Projects; Energy Research, Research and Development.

Append The spetters is to molitice the implicaterities stars of the PEA rener prevent enderspeets represent the spetter of the PEA rener prevention enderspeets represent the spetters of the PEA rener Development product spanning and the PEA rener Development and the PEA rener Development product spanning and the PEA rener Development product spanning

Agancy Contech National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

362

Plume Model 6276.

OMB fording Tile/Code: Science and Express / 20-1900-1-302. Comparisoned Barbarone. How Committee on Appropriations fintrates Subcommittee. How Committee on Approximate Optitione, How Committee on Appropriational Inferior Subcommittee, Sensar Committee on Commerce, Science, and Transportations, Sanser Committee on Benergy and Natural Resources, Sense Committee on Governmental Africs.

Data Base Beference: S-02900-025

Subject Terrest Forceasting; Industrial Wastes; Mathematical Models; Saline Waters; Simulation; Water Pethalion.

Purpose: The Plume Model is a three-dimensional model predicting the dispersion of effluent into large bodies of water. It is used to predict how fast the effluent discharged will decime to the normal salt concentration in these bodies of water. Asput: The information concrete specific bodies of water and specific site locations and the nature of the site affinence. Innet is from the National Coranographic and Atmospheric Administration and other generally published sources, e.g., university studies. Content: The data include a basie data dock concerning a body of water. Included is information such as the concentration of sait, the water temperature, the currents, the bottom contours, and the geographic boundaries. Data are also input concerning the specific site to be considered. This includes the type of structure involved, the angle and velocity of effluence, and the temperature of the effluence. Output: Computer printouts of the numerousl results of the model on various site configurations are produced on an as reductated basis. Contours (graphic representations of the affluent movement) can be drawn from these data. Asoliability. The numerical output is for internal use by FEA analysis. The contours are published in the Strategic Petroleum Sites Environmental Impact Statements. Those data are not proprietary

Agency Centert: National Energy Information Center; 1200 Penetsylvania Ave, NW, Reem 1411, Washington, DC 20461; (202) 566-9025.

363

Strategic Potroleum Reserves Program-Wide System (SPR). 6291.

ONB heading This/Code States and Expense / 92-1300-0-1-302. Comparational Mixenees. *Hands Committee on Appropriations lateoir Stheomaintee, Hance Committee on Government Operationer, Hance Committee on Appropriations laterate and Pareign Sease Committee on Appropriations Insteiner Subcommittee, Sone Committee on Commence, Selecter, and Transportations, Sease Committee on Energy and Natural Resources, Sonse Committee on Governmental Minis.*

Date Bost Reference: 5-02900-026

Subject Terrar Energy Supplies; Manpover Utilization; Petroleum Reserves.

Paraset: This PERT system was created to enable Strategic Potroleum Reserve Office (SPRO) management to monitor progress toward the achievement of program goals as delineated in the SPRO operating plan and to facilitate the effective ecordination of projects that involve more than one Associate Assistant Administrator office. Input: Each Associate Assistant Administrator for Strategic Petroleum Reserve Office enters the proposed activities and sche for his office and any updates to previous schedules on internaentry forms which are then keyed into the system. Content system menitors major activities, such as construction, fill statu: oil sequipiting, for the entire Strategic Petroleum Reserve Pro-The system is updated as needed. Output: The major reports a PERT-type reports on hardcony computer printouts which are duced as needed. The major reports are activity reports showing a activity and its early and late start dates, early and late finish da slack, duration and description; and Milestone Event Reports cu densing all the activities to major milestone events to give a bett overall view of the project. Availability: These reports are intendefor internal use only. They are designed to aid SPRO in the management of all phases of the Strategic Reserve Program.

Agency Cecheth National Entrgy Information Center; 1200 Prenny/twnia Ave, NW, Room 1411, Washington, DC 20461; (202) 566-9025.

364

Site Distribution Model, 6293.

ONB Fanding Title/Code Studies and Expense 1 50-1500-61-030. Comparableal Balances in Balances and Expense 1 50-1500-61-030. Intel: Statements in a state Committee on Revenues of Operations intender Statements on Appropriations Intelefor Selecommittee, Sease Committee on Appropriations Intelefor Selecommittee, Sease Committee on Ecomerce, Selection, and Transportations, Sease Committee on Bacey and Natural Resources; Seaser Committee on Governmental Marin.

Date Base Reference: 5-02903-027

Subject Terras: Eccepy Storage, Mathematical Module; Petroleura Distribution, Petroleura Storage; Sandatton.

Purpose: This model is defined to provide lenst cost solvinos mong alternative protoients notarge units and distribution systems. *Bayas:* Discrete performance primarient used distributions expering, how rates, geographic location of potential lines, milis of pipelines, and unitarity or solveness primarient and the distribution of the primari sector of the sector of the sector of the sector of the solvers. Antitivity: The number from this model is designed for the terral PEA are by cognitant methyses.

Agency Contect: National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9225,

365

Comparison frames Research Data Spaces (CHRD), 6217. OMF strong Trait Code: Statistica and Spaces 75:3:300-1-105. Corganisational blavances: Rusa: Committee on Appropriations: The effort Subcommittee on Internate and Foreign Commerce, Source Consultace on Appropriations. Interface Subcommittee, Source Source Consultace on Appropriations. Interface Subcommittee, Committee on Energy and National Resources, Status Committee on Committee on Energy and National Resources, Status Committee on Commercent Africa.

Data Base Reference: 5-02500-028

Soliject Terms: Econtaria Impact; Etergy Consumption, Energy Policy, Population Statistics.

Purpose: The system is to provide a flexible tool for the evaluation and analysis of the potential contempt and social impact of proposed energy-related regulations, policies, and practices on low and middle income families, special impact groups such as the elderly, the handicapped, and the poor, as well as on the general population at the State level. Input: The Phase I CHRD System is being designed as a file of microdata containing records on individual households and component persons. The primary data source for this purpose is the 1970 Public Use Sample (PUS) from the decennial census. The vorsion of the PUS chosen for Phase I implementation is the State Public Assistance Cost Estimator (SPACE) file. This file is a State stratified subsample containing approximately 150,000 households drawn from the full State PUS. Content: The analytical framework used for Phase I development is an adaptation of HEW's microsimulation Transfer Income Model. The Phase I system is expected to be on-line in March 1977 and will provide estimates of household energy constemption and expenditures for selected years 1974-1985 at the State level. Also, the system will serve as a key mechanism for the anticipation of consumer reaction to proposed energy programs and policies. Owner: The major reports will be essentially descriptive and will be produced as needed. Descriptive uses would include the preparation of table of income distribution, nationally, regionally, and for States. It would also include tabulations of energy consumption crosstabulated with the desired combination of scorraphic, demographic, and socioeconomic characteristics. Comparisons of such tabajations for projected periods with similar tabulations for a recent base period would show how energy programs, in conjunction with other economic and demographic factors, will operate to change such distributions. These reports will be produced in machine-cendable and hardcopy form. Availability: Publicly releasable information is available through FRA's National Energy Information Center.

Aganny Contort National Energy Information Center; 1200 Pennsylvania Ave. Room 1411, Washington, DC 20461; (202) 566-9025.

366

Federal Energy Information Locator System (FEILS), 6003.

OMB Feeding Title/Cedie Salarias nad Expenses / 92-1900-0-1-05: Compassionel Balvanee. Howe Committee on Appropriations: Interies Subcommittee, Hower Committee on Government Opentions; Hower Committee on Intervates and Foreign Commerce; Seave Committee on Appropriations: Interior Subcommittee, She Am Committee on Commerce, Sinces, and Transportation; Source Committee on Barrys ind Natural Resources; Source Committee on Governmental Africa.

Date Bess Reference: S-03900-029

Soblect Terms: Data Bases, Energy: Information Services,

Person: In December 1973, the Federal Energy Office (FEO) was created by Executive Order, and on January 23, 1974, the President directed that the Office be the focal point for energy information in the Pederal Government. In response to the Executive Order, the Administrator of PEO created the Interasency Task Porce on Energy information to survey energy data in the Federal Government, FEILS represents the first step undertaken toward that soal, The FEILS data base was assembled and verified between Pebruary 1974 and July 1975 and undated in 1976. This directory is a comprehereive inventory of energy information available from 44 separate Federal agencies, bureaus, and administrations conducting 279 different programs relating to energy data. Insut: FEILS was develored from a series of questionnaires completed by Pederal seencies during 1974 and 1975. The 1976 undate consisted of a review of the initial data submitted by each agency, and new or change data added to the FEILS 1976 data base. Each agency provided energy program data for 12 energy categories-coal, electricity, energy-related, geothermal, natural gas, nuclear, oil shale, organic waste petroleum. petroleum products, solar, and tar sands. Data may be retrieved from the data base by reference to these energy source estegories or to any of the 90 functions related to them, n.s., exploration, extraction, processing. Content: The system is an automated facility that maintains information about the location of energy-related data within the Poderal Government. The data base comprises 44 areney program descriptions, 279 program summaries, and \$8 related file/data descriptions. Each agency description identifies major energy-related programs that provide or use energy data, the energy source codes that are covered by the programs, types of supporting data that are available, the date that the description was last updated, and the same entropy contact office and the telephone number. Each program description identifies the neveram name and number, oneray sources and functions covered by the program, description of the program and its uses and chiectives, status as to a data source or data requirement, survey form used, date of last update, and office contact and telephone number. Files identify file name, energy sources covered description of data content, number of records if known, size of record if known, date of description last nodate, and areney contact office and telephone number. Output: The FBILS directory is printed annually and an on-line base query capability is available through Data Base Management System (ADABAS). Availability, The directory is available to Government personnel via FEA's National Energy Information Conter, On-line overy is available to authorized users via NRIC terminals

Agency Contoct: National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

363

National Every Information Center (NEIC). 6062.

OMB Funding Third/Code Saleria and Expenses (22.1500-0-1-03. Comprainage Networks: New Committee on Appropriations Interies Subcommittee in Insue Committee on Appropriations futory. Hour Committee on Appropriations Laceford Subcommittee, Sea ex Committee on Commerce, Searce, and Transportations. Searce Committee on Energy and Natural Resources, Searce Committee on Governmental, Maria

Data Base Reference: 5-02900-030

Subject Terms: Energy, Information Conters.

Parson: Section 20.(4) of Public Law 23-275 requires the FEA Administrator to provide for a central clearinghouse for Federal agencies and State governments seeking energy information and assistance from the Federal Occurrement. Other corollary functions are to develop special programs for the poordination of gneray information activities and the exchange of energy information with other Pederal agencies, States, counties, and cities; provide staff assistance to the Federal Inter-Agency Council on Energy Information; identify and catalog existing operaty data sources, reporting systems, and data; develop and promulgate standards in energy terminology; provide assistance to the States in their data collection activities; manage the FEA forms clearance process; retain, store, and catalog all FEA staff and contractor technical publications and reports, provide technicel support services for the preparation and publication of newsletters, reports, and special studies; provide for the dissemination of energy information by such means as bibliographies, directories, and development and utilization of pertisent automated data bases; and respond to both written and verbal inquiries. In the exercise of these functions, the NEIC provides a complete spectrum of capabilities in technical services, research services, and system services, and maintains a staff office for intergovernmental coordination. Input: NEIC is concerned with all levels of energy information resources in Goverament, industry, and the academic and professional world. It tapa more than 100 data banks outside of FEA such as International Statistics (statistical), the Engineering Index (sechnical), the Congressional Information Service Index (congressional), and the Information Bank of the New York Times (general). Data reported by energy-related companies and corporations are maintained in more than 50 data bases by FBA in support of its analytical and regulatory functions. The NBIC maintains a collection of monostraphs, reports, and periodicals in print, microform, and automated media, and, as a national clearinghouse, accesses many additional energy information sources and facilities. NEIC also establishes and oversees regional energy information services conters. Context: The National Energy Information Center is a comprohensive source of energy data and information. There are no geographical limitations. Update cycles vary from dally to annually or one-time, depending mon the particular area of the total energy information field being considered. Out swt: Three hundred forty-two technical reports are summarized in a December 1975 bibliography and its November 1976 update. Most of these reports are available through NTIS. The bibliography, Technical Reports of the Federal Boergy Administration, is NTIS number PB 248 915 and costs \$5. Some of the reports, such as the Project Independence reports, are available through GPO. Some of the monthly reports, such as the Monthly Energy Review and the Monthly Petroleum Product Price Report are among the best known and most used reports. These reports are updated each year with an annual National Energy Outlook, NEIC also publishes its own Network Services Bulletin. Many apecial reports and tabulations are produced on request. Hardcopy printouts of most of the content of automated data files can be produced. Appilability: Most NEIC renorts are available to the public through NTIS or GPO. Much additional unpublished information and data are available to the public. If the data are proprietary, they may sametimes be releasable in an aggregated form.

Agenty Context: National Energy information Center; 1200 Penntylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-5025.

368

FEA Data Dictionary. 6075.

ONB Treating Third/Ceeks Salarias and Express / \$2-1900-0-1905. Comparison Balavenam Hanar Committee on Approximation Interior Subnommittee Neuro Committee on Government Opentioner, Hour Committee on Internation and Foreign Commercing Sonart Committee on Commerce, Sciences, and Transportations, Sonare Committee on Beerry and Natural Resources; Senare Committee on Boerry and Nativa, Resources; Senare Committee on Governmental Africe.

340

Data Buse References S-02900-031

Subject Terma: Dictionaries, Energy, Glossaries

Parpose: The dictionary was established in 1975 to provide FEA program offices with information about the data being collected and processed in FEA. It contains processing and modeling systems descriptions, input energy forms descriptions, output reports descriptions, files or data base descriptions, and data element descriptions for the Paerey Data Forms. There are two additional stotions covering the Federal Energy Information Locator System (PEILS) and selected energy forms from other agencies used in the FEA Forms Clearance functions. Just: The systems, models, files, reports, and forms descriptions were derived from FEA program offices. The FEILS data were collected from each Federal agency having energyrelated programs. Content: The dictionary is attanged in several sections, each with an index corresponding to the various items being presented. The interrelationship between the systems, the input forms that provide data, and the data elements being collected establishes a hierarchial arrangement of the data that allows a user to trace the linkages to all parts of a system (on-line). Each record includes the item name, synonymous name, a description of the item and its purpose, source of the description. Office of Primary Interest, FEA project number, security classification of the data, and other related data. FEILS records are similar to the above, but they also include agency program numbers, agency contact office and telephone numbers, and the energy functions related to the energy sources reported. Output: The Data Dictionary is printed annually and has on-line data base overy capability through Data Base Management System (ADABAS), Availability: The Data Dictionary is printed for internal PEA distribution. The on-line system is available to FEA users via NEIC terminals.

Agency Contests National Energy information Center; 1200 Pennsylvania Ave. NW, Roam 1411, Washington, DC 20461; (202) 566-9025.

369

Salpart L. 6032.

ONE Funding This/Code: Subjects and Expenses / 92-1900-0-1-930. Companies Relevence: *House* Committee on Appropriations Interior Subcommittee. Howe Committee on Experise Commerces Server Committee on Experipedual Interior Subcommittee, Server Committee on Experipedual Interior Subcommittee, Server Committee on Energy and Natural Resources; Server Committee on Governmental Minis.

Data Base Reference: S-02900-037

Subject Teense Disibilities; Energy Supplies; Gaseline; Jet Publ; Kerearne; Petraktum Products; Propany; Residual Part Olt; Resource Allocation

Purpose: This system is to ensure the distribution of available products on an equitable basis during a shortage situation to all users of allocated products based on 1972 purchaser/supplier relationships and volumes sold. This system is in support of Subpart L of 10 CFR 211.222. Awar: The system collects information from every prime supplier of any product subject to State-set-aside. A prime supplier is the supplier (or producer in the case of propund) which makes the first sale of an allocated product subject to State-ant-sside in the State distribution system for consumption within the State. Content: The context is the total amount of delivered neaducts net State during the preceding month and anticipated supply for individual States for the following month. Products include propane, gasoline, kerosene, distillates, let fuel, and residual fuel oils. Outeut: Summaries of supplies of various petroleum products are available on a State-by-State basis. These listings are produced monthly. Aveilability: Publicly releasehis information is available through FEA's National Engrav Information Center.

Agency Contools National Energy Information Center; 1200 Peansylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025

370

Market Shares System 6038.

ONB Funding Tills/Code, Schnies and Expenses (9:1:1500-6:1-30). Corpersistend Balavornis / Hour Committee on Appropriations Interior Subacommittee. (Hour Committee on Government Optition, House Committee on Large-cristian and Foreign Commerce, Savare Committee on Commerce, Salvares and Teachgortation, Savae Committee on Energy and Natural Ressurces; Savare Committee on Governmental Arthins.

Date Base Reference: 3-00500-038

Solojest Tenne: Datiliases, Energy, Marketing, Penelsum Products, Prepara; Residual Fuel Od

Paranse: The nurnose is to report any changes after calendar year 1972 in the aggregate share of nonbranded independent marketers. the aggregate share of branded independent marketers, and the aggregate share of other persons engaged in the marketing or distribution of refined petroleum products of the national market or the regional market in any refined petroleum groduot. Japat: Input includes data on sales of refined petroleum products by refiners and data on distillate, residual fuel oil, and provane sales to ultimate consumers by branded and unbranded independent marketers. Cantent: Information regarding sales volumes of various products is collected monthly from a sample of firms in each of the categories mentioned above. Output The principal monthly reports are Report on Sales of Refined Petroleum Products and Report on Gasoline Service Station Market Shares. Availability: Output reports are published monthly and formally distributed to the Steaker of the House. the President of the Sennie, and majority and minority chairmen of principal Senate and Home subcommittees. The reports are subscquently released in hardcory form for distribution to the general public through the National Energy Information Center and NTIS.

Agancy Contoch National Energy Information Center; 1200 Pennsylvania Ave NW, Room 1411, Washington, DC 20461; (202) 566-9025.

371

Underground Gas Storage System, 6054.

O MB Feeding Theorem is being discussed (2):1900-0-1-05. Comparison (2) Microson in Microson (2):1900-0-1-05. Comparison (2) Microson in Microson (2) Comparison (2) Teorier Subscrimittee, Theory Committee on Gorenzant Opertory. Howe Committee on America and Procipy Commerce Sense Committee on Compress, Science, and Transportation, Sanow Committee on Bioregy and Natural Resources, Sense Committee on Committee on Bioregy and Natural Resources, Sense Committee on Gorenzaneta al Minis,

Data Base References 3-02500-039

Subject Terms: Energy Supplies; Natural Can Sterage; Storage

Popular This tyrthem is to collect information concerning storage equivalty, statege free high pictorias, and storage internal gas viscage operators. Apply Data State State

opment stags. Output includes limitings by company of voluentric inspections, gas reservoir withdrawsks, and balances. AntiMillio: Information collected for that survey is the basis of the publication Underground Storage of Natural Gas in the United States publicly available through FBA's National Energy Information Center.

Agancy Context: National Energy Information Center; 1200 Pennsylvania Ave NW, Room 1411, Washington, DC 20461; (202) 566-5025.

372

Oll and Gas Reserves System, 6055.

ONB Feeding ThirdCode Salarce and Expenses (22:1500-0-103) Comparison Solar Salarces in the Committee on Approximations in trafer stream showen there are committee on Georgramond Optimitions. Howe Committee on Interviewa and Peregue Commerces, Saveau Committee on Commerce, Salarces, and Transportations; Saveau Committee on Intergy and Natural Resources; Saveau Committee, on Georgenmental Minis,

Data Base Reference: S-02900-040

Sabjest Teoms: Energy Supplies: Gas Preductien; Gas Reserves, Gas Reseconda, Pointoinum Production; Peareleum Preducts, Petroleum Reserves; Petroleum Resources

Parpose: The system was to propere a complete and independent analysis of actual oil and ass reserves and resources in the United States and its outer continental shelf. Also surveyed was the existing productive canacity and the extent to which such canacity could be increased for crude oil and each major petroleum product each year for the next 10 years through full utilization of available technology and canacity. Awart This system collected information as of December 1974 from approximately 12,000 operators of oil and gas wells. Content: The content includes data on the production of oil and gas for 1970-74, estimated production for 1975, and estimated reserves. Output: The output includer an initial report on Oil and Gas Resources, Reserves, and Productive Capacities, June 30, 1975. and a final report on Oil and Gas Resources, Reserves, and Productive Capacities (Vols. 1-11), October 31, 1975. Availability: Publicity releasable information is available through PEA's National Energy Information Center.

Agency Contect: National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

372

Cool Date Base. 6057.

OHS Transfer This/Cash: Subries and Exponse / \$2:1500-5-1/05. Compressional Relativenter. *Hance Committee on Appropriations* Interies Witkommittee on Internetie and Foreign Commercer. *Simust Committee on Appropriations Interform Subcommittee*, Simuer Committee on Commerce, Science, and Transportations, Swear Committee on Encary and Natural Resources; Swear Committee on Committee on Encary and Natural Resources; Swear Committee on Governmental Africia.

Data Bace Reference: S-02900-041

Subject Terres: Arthracite: Bitemineus; Coal Prices; Coal Productore; Coal Reserves; Energy Prices; Energy Supplies; Lignite; Subbinautorus

Propure: The system provides isohemated data base information celling to coal servers, production, prices, and other Physical and coscome data. Data are organized by geographic location and by energy mark through the server Data Base of the Ukato of Mines, Demonstrated Coal Reserve Data Base of the Ukato Ukato Base more service and the server control of the service information of the server data and the service contemport, and/or content, location, type (antibracity, miller more, lipsific) consumption; coast and investories. Output Data

377

will be provided upon request. Availability: Publicly releasable information is available through FEA's National Energy Information Center.

Agancy Contact: National Energy Information Center, 1200 Peansylvania Avo. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

374

Cost and Pricing System 6233.

Card tay Provide Systems 1992. Card Tay Provide Systems and Expenses / 92-1500-0-1-305. Comparements Indiversity Journe Committee on Appropriations: Interny, Howe Committee on Internets and Foreign Comments: System Committee on Appropriateous' Interfet Subscientifies, Service Committee on Barry's Natural Resources, Service Committee on Service Committee on Marries, and Transportations; Service Committee on Barry's Natural Resources; Service Committee on Service Committee on Marry and Marinet

Data Base Reference: S-02900-042

Subject Terms: Datilisters, Energy Prices; Gesoline; Jet Part; Kensene; Liquefied Petroleure Ges; Petroleura Products; Prices; Residual Part Od.

Parmers: The system is to monitor netroleum product prices and to facilitate the timely analysis of prize and volume of sales date at the refined product level. FEA men the data collected for this system to assess conformity with established netroleum policies. Jamat: The source of information currently is the Petroleum Industry Monthly Report for Product Prices. The report is submitted by all refiners and gas plant operators. Also included are resellers and retailers who derive \$50 million or more annually from the sale of covered netroleum products. Content: The system currently tabulates selling price and sales volume data for each respondent firm for each covered petroleum product it sells. Covered products include assoline, distillate, residual fuel oil, aviation facis, kerosone, and liquid petroleum gas. Information is collected monthly on a national basis. Output: The output is various reports representing monthly price and current product prices. Availability: A tabulated summary is pablicly available in the Monthly Petroleum Product Price Report through FBA's National Energy Information Center.

Agency Contacts National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

375

John FEA/BOM Petroleum Reporting System, 6230/6301.

OMB Fueding Thir/Codes Salaries and Expenses (92-1500-0-1-05). Comparational References House Committee on Appropriations Interior Stoteonmittee (House Committee on Government Opertions). Howe Committee on Interestate and Poreign Commerces Senart Committee on Commerces, Selaritate and Approling and are Committee on Commerces, Selaritate on Governmental Articles, Senart Committee on Bacrya and Nauaral Resources, Senart Committee on Governmental Artisle.

Data Base Reference: S-02500-043

Subject Torens: Crude Oil Imports; Petroleum Products; Petroleum Refinatios; Pipeliors, Refineries.

Propose The system combined the perceivant reporting requirements of the Brazer, of Maria (BOA). Department of the Interface, means of the Brazer, and the system of the Interface, the system of the Interface of

Energy Digest SEPTEMBER 1977

unce are stated for induces, built eveninals, revol- state predication in the state of the state

Agency Centoch: National Energy Information Conter; 1200 Permsylvania Ave. NW, Room 1411, Washington, DC 20461, (202) 565-9025.

371

Short Term Coal Demand Forecasting Model, 6118.2.

OMB Funding Thin/Cash: Statics and Exposes / 32-1500-0-1-100 Comparational Relativenesi: //sises Committee on Appropriations Interior Subcommittee Information on Government Opertioner, Howe Committee on Interest and Foreign Commence, Saver Committee on Appropriations Insteiner Subcommittee; Saver Committee on Borrary and Natural Resources; Savet Committee on Overenancial Amins.

Data Base Reference: S-02500-044

Solitest Tennes Cost; Econorsense Models, Electric Utilities, Poretastarg; Models.

Person: The system forerasts the demand for coal by quarter. State, and by end-using sector of the aconomy. This model explices to electric utilities, industrial and metallurgical users, and expecters, Input: This is a concentric model that uses historical data on coal demand and economic activity, including the generation of electricity to estimate forecasting equations. Forecasts are based on forecasts of the anteropriste exogenous variables. Content: Subsystems include retail, industrial demand for cost, coke producers demand for coal, electric utility demand for coal, export demand for coal, and Strike Evaluation Model. The Strike Evaluation Model will be used for special studies evaluating the potential impact of a coal strike; the test will forecast quarterly for two years, annually for five years. Each of these subsystems will be State specific. All but the Strike Evaluation Model will be re-estimated at least senusity. Outrot: Annusi reports and paseteriv input into other reports, including FEA Quarteriy Report to Congress and the Monthly Energy Review, are the autrust Autiohility Publicly releastble information is available through PEA's National Energy Information Center.

Agancy Contect: National Energy Information Center; 1200 Penntylvania Ave NW, Room 1411, Washington, DC 20461; (202) 565-9025.

377

Electrical Firmulal Forecasting Model (BSB Model, BUFTNANCE).

OMB Funding Title/Cade Shiriss and Expense (7 92-1500-0-1-302). Comparational Relavance: How Commitse on Appropriations Interior Stocommittee, How Committee and Foreign Commerce, Inter, How Committee and Foreign Commerce, Seave Committee on Appropriations Interior Subcommittee, Swe Committee on Beorgrand Natural Resources; Smott Committee on Governmental Africa.

Date Base Reference: \$-02900-045

Subject Terms: Ejectric Utilities; Financial Monitoring; Mathematical Models; Powerplants; Public Utilities; Standation. Purpose The system forestars the financial condition of itdividual detect using company. Inger: The part lefted exact particular point company. Inger: The part lefted exact proting using particular points, and opplie could. Could point any point of the system of the system of the system of the particular examine partners for elastical tabley powers when vorsance constants. It can be general and there by other configutoes for equivity defines a signalization, and determine the system examines the system of the system of the system of the company. The system of the system. The system is the system of the sy

Agency Contact: National Energy Information Center, 1200 Pennsylvanis Ave NW, Room 1411, Washington, DC 20461; (202) 566-025

378

Oil and Gas Supply Model, 6138

One was a supply above to 10 to OM Facular pills (Code: Salron and Expenses / 92-1500-6-1-003; Congrussional Relevances: Name Committee on Appropriate Name Committee on Appropriate and Pareling Commerce, Sease Committee on Commerce, Selectures and Pareling Commerce Sease Committee on Commerce, Selecture, and Transportational, Sever Committee on Energy and Nascal Resources; Source Committee on Severansportal Almin.

Data Gase Reference: S-02300-046

Subject Termes: Crude Gal Production, Crude Gal Reserves, Energy Supplets, Foncessing, Mathematical Models; Natural Gas Production, Natural Gas Reserves, Petroleure, Structures

Parente: The model is designed to produce independent estimates of future crude of and natural ass production for use in energy policy formulation and planning. This model is derived from the National Petroleum Council Oil and Gas Model. Insut: The data are from the Bureau of Mines. American Petroleum Institute oil reserve estimates. American Gas Association drilling costs and statistics, resource estimates from the Geological Survey, and Lewin enhanced recovery data. Content: It forecasts the oil and gas production by region for 1980, 1985, 1990, and later. The model is revised annually on a scheduled basis, but modifications and updates to the data base are being implemented on a continuing basis. Puture production possibilities are established as functions of anticipated profitability compared to alternative investment opportunities, the amount of exploratory drilling undertaken and its success, and the extent of constraining policies that limit profitability or the svalabilsty of land favorable for exploration and production. Burst may be made under two basic sets of assumptions: 1) The Reference Case, asseming a continuation of policies in offect prior to 1977, except. price controls; and 2) Accelerated Development, assuming changes to encourage domestic canlocation and moduction. Queue Orient includes oil and gas production and reserves by region by year as machine-readable files and hardcopy and a comprehensive annual study supporting the National Energy Outlook and as issues develop. Atailability: Publicly releasable information is available through FEA's National Energy Information Center.

Agancy Context: National Energy Information Center; 1200 Permsylvania Avc. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

379

National Coal Model (RMAC). 6143.1.

Distriction of the second s

Committee on Energy and Natural Resources; Senate Committee on Generomental Affairs.

Data Base Reference: S-02900-047

Subject Fermit Coal, Energy Policy; Energy Supplies; Percenting; Mathematical Models; Summation

Paraser: The purpose is to forcess the long term supply of cost by region and cost type. Input: The input is from Federal Power Commission electric utility canacity data, sales by region data, and cost delivery data, Bureau of Mines coal reserve data: utility coal demand and distribution efficiences; nonunlity coal demand, and coal transportation demand. Content: The model is designed to forecast coal production, consumption, and prices and to analyze coalrelated public policy issues. It generates equilibrium solutions through a linear program formulation which balances the supply and demand for ocal at minimum cost. The model has 30 supply regions, 35 demand regions, up to 40 possible coal types, and 6 consuming sectors. The model is carable of making both short term and long term annual projections under a variety of policy acoustics. Users have the espability of changing such factors as region specifications. assumed inflation rates, or assumed growth rates in electricity sales through modifications in the data base. These factors are not a part of the model's structure. The model can also perform sonsitive analuses in order to sauze moertainty surrounding a forecast which it produced. Output: No regular reports are produced. The system is used as an analytical system to address policy issues as they occur. Availability: Publicly releasable information is available through FPA's National Energy Information Center.

Agancy Contoch National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

380

Reserves Allocation and Mine Cost Model (RAMC). 6143.2.

OM8 Invaling Title Code: Sultris and Expenses / 22-1500-0-1-02. Comparational Betweene. Hissoc Committee on Appropriations Interio: Subcommittee, Haure Committee on Appropriations to Portutions, Haure Committee on Interstant and Portuge Commerces, Santar Committee on Commerce, Science and Transportations, Susar Committee on Energy and Natural Resource; Santar Committee on Operational Matin.

Data Base Reference: S-02900-048

Subject Termsr Coal Reserver; Energy Supplies; Mathematical Module; Simulation

Parpase: The model is designed to allocate coal reserves by BTU and sulfur content to 40 coal type catogories. The catogories are then samested to create regional piles of each coal type. Supply curves are created for each region by mine size and coal type. These are input to the National Coal Model and the Project Independence Evaluation System (PIES). Input is reserves data from the Bureau of Mines and the Federal Power Commission Coal Survey. Content: The program allocates coal reserves into 40 coal types. There are 30 coal producing regions to which these reserves ore allocated and then aggregated by coal type. These plies are then allocated to different mine types based on global, regional, and coal type specific parameters. Mines will be operational if coal is available to be mined and can be sold at a minimal acceptable solling price determined by the program. Output: Output consists of regional coal supply files and printed reports, including coal reservo base allocation, coal type and mine size allocation, and coal aupply functions. Availability: Publicly releasable information is available. through FEA's National Energy Information Center,

Apaney Context: National Energy Information Center; 1200 Pennsylvenin Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

381

Project Independence Evoluation System (PIES), 6223

Photo Industry and Article and Expenses (V-2) (2016-1-30) Deli Penden Pitter Conta in Bartistica and Expenses (V-2) (2016-1-30) Deli Penden Pitter Conta III and Contaction (Contaction) India Subcommittees (Nova Consultine on Appropriatora) Inter, Nova Committee on International Contaction Sussay Committee on Appropriations: Interior Subcommittee Nova Committee on Beargy and Natural Resources; Susay Committee on Governmental Affaire.

Data Base Reference: S-02500-049

Subject Terms: Coal Production; Crude Oil Production, Econometric Medels, Economic Impact; Energy Policy, Energy Prices, Energy Supplier, Portesting; Gas Production; Stitulation.

Parsess: The system is to evaluate various energy policy alternatives by predicting their impact on the energy sector over the past 5-15 years. Insut The input includes the Regional Econometric Demand Madel (R D4), supply function for each fuel corneity limits for production of each fuel, transportation network by mode, commodity, price controls, world energy prices, and macroeconomic forecast. The system requires extensive data input and approximately 10,000 lines of computer code. Caster: The model consists of supply modules for various sectors of the energy industry; coal production, oil production, gas production, refineries, utilities, energy production via emerging technologies, transportation, and importing The level of agaregation for each supply module is determined by division, specific to each supply module, of the United States into regions. The modules contain cost and capacity information for each region; for each of the years 1980, 1985, and 1990; and for each of several scenarios which reflect various policy alternatives. The model is updated annually for each new edition of the National Baccay Outlook. The model assumes a competitive seconomic structure with upward sloping supply curves and downward sloping demand curves. Within this framework, the model is made to endoacnously forecast the trajectories by which this equilibrium is achieved; and the data are senerated assuming a smooth transition to the end state. A fundamental concept underlying the model is that prices will clear the market in all regions; that is, for the southbrium set of prices, profitmaximizing producers, converters, and transporters will be willing to supply precisely the set of quantities demanded by cost-conscious consumers. The foreessts that the model generates are functions of numerous assumptions about the energy system, many of which can be varied to estimate the impact of policy initiatives or alternative world potroleum prices or to account for supply or domand uncertainties. Many of these policy options or uncertainties have been structured into scenarice, and the results of these scenarios underlin the discussion presented within the body of the annual National Energy Outlook, Additional scenarios can be and are generated contimously to explore policy options and uncertainties. All prices and quantities of energy goods produced, consumed, or converted are estimated on a regional basis. For each soctor, a set of regional definitions is established to ease data collection and modeling. The supply side of the PIES oppilibrating mechanism includes a set of activities that represents the flow of materials (crude oils, natural ass, electricity, cosis, and refined petroleum products) from their source to a final destination. While there are many different materials which flow in the system, there are only eight final products consumed in demand realons-gasoline, distillate, residual, other petroleum, natural gas, steam cosi, metallurgical cosi, and electricity. The three entegories of supply activities are production, energy conversion, and transportation. Each activity is described by possible combinations of output, input, and cost. Cost functions for existing activities include not only variable costs (such as operating and maintenance costs), but new activities also, including amortized capital costs, Capital costs associated with existing activities are viewed as sunk costs and do not influence the allocation solution although they are instuded in the average cost pricing mechanism when appropriate. The domand side uses a constant elasticity approximation to the demand mode described in summary of Regional Econometric Demand Model (RD4). The PIES Integrating Model operates as follows: A linear program which represents an interim approximation

Energy Digest SEPTEMBER 1977

of the energy system is solved. The linear preserve includes representations of demand functions, supply functions, transportation activities, and energy conversion activities. The interim market cleacing prices estimated by the linear program are used to refine the demand function approximation in order to re-solve the horar program. The progress is appeared until the solution converges, determining an equilibrium of supply and demand quantities and proces. Quanty Two reports are evaluable at computer princours. 1) PIES Model Report (WONDERBREAD)-updated annually. There is one for each year (1080 1085 and 1020 and each soasario. It includes scenario description, ray materials accubition report, material balance reports. summaries of conversion activities and yields, demand area requirements report, production final demand report, utility feasil fuel consumption report, table of primary products through system, resource, requirements report and executive data summaries. 2) WONDER, COOKIE-contains more aggregated and digested information than WONDERBREAD and is much briefer. Availability: Publicity releasable information is available through FEA's National Energy Information Center,

Agoncy Contocti National Energy Information Center; 1200 Pennsylvania Avc. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

382

Natural Gas Shortoge Model. 6233.

ONB brenching Title/Cade: Salarist and Expenses / 92-1300-02-1303. Compressional Balavesane. *Howas committee on Appropriations In*tedor Studoomnittee, *Honsa Committee on Governmeset Open*tises, *Hous Committee on Interaction and Portigin Commerces*, *Sware Committee on Commerces*, Selence, and Thoragonations, *Sware Committee on Ecompress*, Selence, and Transportations, *Sware Committee on Ecompress*, Selence, and *Transportations*, *Sware*, *Committee*, *Sware*, *Sware*, *Committee*, *Sware*,

Date Base Reference: S-02900-050

Sobject Terron Energy Shartagen; Poccessing: Mathematical Modela; Natural On Shretages; Sizuration,

Purpose The system is to forecast ratural gas hortings by State, by quarter, layer the imput is constantiate estimates of State domands from Bureau ed Mans data and concentrist estimates of matching the system of the system of the system of the system American Patrolaum Instituti American Casa Association data International function for perfect Parcer Commission data. Concentra-Torontens are squared by, for eight questions that the data of the system Patrolaum and the system of the system of the system of the system International function of the system of the system of the system is an analytical system in orders patroly insues the hypothese Analasia. Millow The System State State System of the System of the System Millow The System System System of the Sys

Agamey Canteet: National Energy Information Center; 1200 Pennsylvanis Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

383

Short Term Petroleum Demond Forecasting Model. 6239.

ONB Feeding Tills/Code Statistics nod Exponse / 92-1500-0-1-302. Compensional Statistics in Advanced Technologies of Approximations Interior Subcommittee, Insure Committee on Government Opentions, Hour Committee on Insure and Feeding Commorce, Server Committee on Commerce, Science and Feeding Commorce are Committee on Commerce, Science, and Taxaspeartinion, Server Committee on Commerce, Science, and Texaspeartinion, Server Committee on Advanced Resources, Server Committee on Governmental Atalia,

Dato Base Reference: S-02500-051

Subject Tesmu Energy Demand; Percenting: Mathematical Models; Petroleum Demand; Petroleum Products Demand; Simulation.

Parases: The system is to forecast the domand over the next three years for primary petroleum products. Japan' The input is price assumption per fuel type, GNP estimates, Federal Reserve Board production indices: and supply estimates. Gauteat: The content includes the demand by monthly, quarterly, and yearly time period for the price and the domand for fuel type. Forecasts of the Short Term Retroleum Demand Encernation Model are used extensively in comprises with some inends to give constitutive assessments of notential problems such as a possible shortage of gasoline or some other primary petroleum product. Porecasts are used by FEA as a basis for analysis of major decisions on energy policy such as decontrol of residual fuel oil, distillates, and other products. Another important use of the foreessting methodology is to study past trends in netroloum consumption to accertain which factors accounted for the recent decline in petroleum demand relative to pre-embargo trends. Output, Economic of neterious product demand by type by year troproduced. Anallability: Publicly releasable information is available through FEA's National Receipt Information Center.

Ageney Center: National Bnergy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025

334

International Energy Evaluation System (IEES).

ONE Facility Tatl/Cole: Saluria and Exprass / 22-1900-4-1030 Comparisol Datament. Huns: Committe on Apropriations Interiar Subcommittee. Huns: Committee on Apropriations Interiar Subcommittee in Neural Land Foreign Commence Sased Committee on Appropriations Inder's Subcommittee on ac Committee on Compary, and Anaportation; Starte Committee on Beargy and Natural Resources; Sease Committee on Governmental ARIs,

Date Base Reforence: S-02900-052

Subject Tenner Coal; Crude Olt; Econometric Modela; Energy Datwind; Energy Supplier, Percessing; Gas; Geothermal Energy; Nuclear Energy; Simulation.

Parmet: The model is to enable market clearing analysis of alternative energy sources on a world level, to evaluate overall OPEC demand, and to determine the availability and price of future U.S. energy imports. Insut: Input consists of econometric demand forecasts from the IEES domand models, energy supply forecasts from the IEES supply models, and energy process data on world refineries, utilities, and transportation resources. Content IEES is a world model of all energy resources (e.g., oil, coal, gas, nuclear) which defines energy domands by final product (e.g., gasoline, distillate, jet feel) by sector of the economy (e.e., commercial, residential, industriel) for each major country of the world. The model specifies supplies of each source of energy in terms of crude oil (by type), gas, coal (by typs), nuclear, geothermal, and synthetics (by type). The time frome modeled is from the present to 1990 with primary emphasis given to the years 1980, 1985, and 1990, Rapfielt simulations of electrical utilities, refineries, and the international tanker fleets are included in the integenting model itself. Simulations of the primary supply processes for oil, gas, and coal are included in the UEES supply models, and the results of these simulations are input to the IEES integrating model. The integrating model than seeks the supply/domend equilibroun for the world based upon energy prices and the supply constraints specified in the model. Output: Output includes rotional/country level energy balances: energy supplies/domands/ prices: electricity enteration: refinery operations: world trade in oil. gas, and cost; and tanker/bulk carrier fleet utilization. Availability: The output is for internal use only while still under development.

Agency Contexts National Energy information Center; 1200 Pennsylvania Avo. NW, Room 1411, Washington, DC 20461; (202) 566-9025,

85

Regional Econometric Domand Model and Auto Simulation Model (8D4) 6270.

OMB Funding Till/Code: Salaries and Expenses (2):1500-0-1303. Compressions Barweene: Howe Committee on Appropriations Interior Subscanditor: Hower Committee on Government Opentions, Hower Committee on Appropriations Interior Subscanditors. Suranz Committee on Appropriations: Interior Subscanditors, Sense Committee on Commerce, Sense, and Transportations, Sense Committee on Barry and Natural Resources; Sense Committee on Governmental: Ambris.

Data Base Reference: S-01900-053

Subject Termu: Distillators; Econometric Models; Energy Demand; Foreeasing; Garoline, Jet Fuel; Residual Fuel Oil; Simulation.

Parment: The model (RD4) is an interface to the PIES system. RD4 provides a demand surface to the Project Independence Evaluation System (PIES) equilibrating framework. In the integration, demand and supply are couldwated, and furl forecasts are produced for the years 1980, 1985, and 1990. The Auto Simulation Model is a submodel to the Regional Econometric Deputed Model which form casts a demand point for gasoline consumption. Just The model provides 1975-90 demand surfaces (demand point prices, quantities and elasticities) based upon input forecasts of population, per capital disposable income, natural gas hookups, value added in manufacturing, and exogenous price paths derived from previous PIES equilibria for natural gas, electricity, distillate, residual fuel, liquid gases, gasoline, jet fuel, and coal by economic sector. Content: The model is a regional model, disaggregated to the level of the FEA Region to provide demand estimates for energy consumption over the period 1975-90. An Auto Simulation Model exists as a submodel to the Regional Econometric Demand Model which provides a national demand estimate for gasoline consumption (shared out to FEA regions) and transportation usages of distillate, readual fuel, and jet fael (all shared out to FEA regions). RD4 is an econometric model based strong 1960-75 Islatorical data in the State/Federal Consumption and Price Data Base. The level of regional disagregation is to the FRA Region. Boonometrically derived coefficients are filed into the Retional Beanometric Demand Model forecasting code, and demand autilizes are regionally derived from lanut of exceptions variables (normitation, per capita disposable income, etc.). Gutawit Output includes reports of prices and quantities for facts modeled from 1975-90 and electicities (available for 1980, 1985, 1990). Reports are in hardcopy form. There is one report available for each of the PIES domand scenatios. Availability: Publicly releasable information is available through FEA's National Energy Information

Agency Context: National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

386

OECD Energy Demand Model, 6273.

OMB Smalley Title/Code: Salarins and Expenses / 22:1500-61-305. Cognasional Retworkers Hause Committee on Appropriations: Interior Systemmittee in Iteusa Committee on Government. Opention, Hoase Committee on Appropriations: Interior Saloomnittee, Sana et Committee on Appropriations: Interior Saloomnittee, San et Committee on Energy and Natural Resources; Seast Committee on Overenmental Affairs.

Data Basa Reference: S-02900-054

Subject Teamin Coal; Crude Oll; Bornornstrie Models; Energy Denand; Forecasting; Osseline; Jet Part; Natural Ose; Residual Fuel Ol; Simulation.

Parpose: The Organization for Economic Cooperation and Development Energy Demand Model forecasts corray demand by sector and sector product for 19 OECD countries. Input: Macro variables include groups domestic product, steel production, and vehicle registakin foresatis. Other input a cortay prior forecasts by accor and historical energy somempton data. Content The search endermines the prior assumptions and gross domestic product growth assumptions? Products covered methods course eff, natoral gai liquids, motor pussilier, aviation fed, restault aftel oil, and cast. *Output*: The noisput includes forecasted energy consumptions and growth rates, forcasted prior and growth rates, and simulated classicity matrices. *Amiliability: The resorts are for functual* gai of the prior forecast and *Amiliability: The resorts are for functual* gai on an

Agency Contest: National Energy Information Center, 1200 Permsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

387

International Coal Supply Model, EIA-1.

OMB Funding Thir/Cade: Salarias nod Expenses / 22-1900-0-1-03. Compassional Brevennes Houre Committee on Approximations: Interior Subcommittee, IAssac Committee on Government Opentions, Howe Committee on Appropriations: Interior Subcommittee; Suear Committee on Appropriations: Interior Subcommittee; Sue Committee on Commerce, Science, and Transportations; Seasu Committee on Benergy and Natural Resources; Smate Committee on Governmental Africis.

Date Base Reference: 5-02500-055

Subject Termin: Cost; Cost Mining; Energy Supplies; Forecasting: Mathematical Medels; Simulation

Pupper The model uses a linear pergamming approach to free implemention of vinces of trapper by region, and analysis dissign production of vinces and trapper by region and analysis disbutions of the second second second second second second productions and the second second second second second constructions and analysis of the second second second distance of the second second second second second second distance of the second second second second second second distance of the second second second second second second distance of the second sec

Agancy Contech National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 10461; (202) 566-9025.

388

International Of Supply Model, BIA-2.

Ohl Turologing Tito/Code: Statistics and Expresses (32-1800-0-1302). Comparatureal Relativance: Hono: Committee on Agrophatians: Intenier Substantibies; Hono: Committee on Government: Opention; Hono: Committee on Appropriations: Interior Substantiato, Statist Sease: Committee on Appropriations: Interior Substantiato, Statist Committee on Emergy: add Natural Resources; Sease: Committee on Generatine on Alfrain.

Data Base Reference: S-02900-055

Subject Teamst. Dulling: Energy Supplies; Forecasting, Mathematical Models; Oil Production: Petroleum Simulation.

Payme: The model uses a linear programming formulation to foresta an oil precision region's diffing and producing region's difficult pregnants such that discounted revenue is maximized. The formulation is spolett a arrgion's technical and finantial constraints. Paywer The data requirements are producible capacity information for primary, secondary, and tettary recovery methods, reserve information. For einting, reserves, and undiscovered (found via exploration difficultorismic), reserves and undiscovered (found via exploration difficultorismic). The approximation for exploration difficultorismic processing for exploration, reserve foredorment, proderive reservity development, and producting, and toohhold and concomic contraint information. Cancer: The model allows the user to determine the entry-resoluting accounts on all the time horizon to the forestart. Object: The output related on allows, moleculary of development, and operating output and finally tables, including, experising, can tables, including, involution, and and and production of the second second second second second potentian (the efficiency of the second second second potentian (the efficience of the second second second potentian (the efficience of the second second second east lines perfort in the forestart horizon. Response to the second potentian (the efficience of the second second second second east lines perfort in the forestart horizon. Response to the second determined the second second second second second second determined between the forestart horizon. The second second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the forestart horizon data for the second determined between the second data and the second da

Agency Context: National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461, (202) 566-9025.

389

Necessite Regional General and Reargy Price Marks (§14-2, OMR standing Table Colem: Salares and Esponses /92-1500-0-1-05. Comparisonal University of Committee on Appropriations of Inter Subscannitizer. Unava Committee on Governancett Opera-Sand: Committee on Appropriations Interfor Subscannitizer, So-Sand: Committee on Appropriations Interfor Subscannitizer, So-Sand: Committee on Energy and Nitzala Resources, South Committee on Governmental Markin.

Data Base Reference: 5-03500-059

Sobject Terms: Economic Development, Economic Impact; Energy Policy, Energy Prior, Percenturg, Mathematical Models, Prices; Simulation.

Person: The system is to determine the intract of State energy prices on State economic growth. Japat: 'The input is appual growth in unit capital and labor costs, by State and ansmal costs of energy and nonenergy manufacturing input, by State. Containt: The arowth of manufacturing output in each State is determined by the arowth of capital equipment, labor, energy input, and other material input, The growth rates of camtal and labor denend on the profit rate and the wate rate, which in turn are affected by regional energy rejets The model has been tested on data for the States for the 1963-72 period. Using parameters based on these tests, energy policies which change State energy prices can be studied using this model. A hypothetical onergy scenario (of eliminating Stote energy price differentials) has been simulated on the model. This simulation shows that energy prices are importantly related to regional growth. Output No regular remorts are modeled. The system is used as an analytical system to address policy issues as they preser. Availability: Publicly releasable information is available through FEA's National Energy Information Center

Agoncy Contest: National Energy Information Center; 1203 Pennsylvania Ave. NW, Roem 1411, Washington, DC 20461; (202) 566-9025.

390

Income Distribution Import Model, 6144.3.

ONB Funding Thir/Code Subries and Exposes / 92:1900-0-130: Comparison Relativensi: *Biase* Committee on Appropriations Interior Solocommittee, *Hause* Committee on Government Optition, *Haus* Committee on Interview and Pareign Commerces Source Committee on Commerces, Solocommittee, Solocommittee, Solocommittee on States and Transportations; Source Committee on Commerces, Solocom, and Transportation; Source Committee on Dancy and Natural Resources; Source Committee on Governanced al Minis.

Data Base Reference: 3-02500-050

Subject Torests: Economic Impact; Econgy Policy; Forecasting; Income Distribution; Mathematical Models, Simulation.

Parpose. The model is to provide estimates of the effects of encrgy policies on the size distribution of income for the United States. logal. The input is forecasts for functional distribution or components of personal income (external) and a 1962 Survey of Financial Charactenstics of Consumers (internal), Content: The model provides a national estimate of the size distribution of income for the United States The time period and specific energy policy examined are determined by availability of macroeconomic forecasts of imtacts. The model is a constant shares distribution intuact model. Each element of the size distribution is allocated constant share of the functional distribution over time. The model computes size distributtons for a variety of energy policy forecasts supplied as input to the model. Effects are calculated by comparing forecasts for an enorgy scenario with an appropriate reference scenario. Output: No resular reports are produced. The system is used as an analysical system to address policy usues as they occur. Anniability: Publicly releasable information is available through FEA's National Energy Information Center

Agency Context: National Energy Information Center; 1200 Pentsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 366-9025

391

Dynamic Input-Ouipas Linear Programming Model for Registral Every Impact AuxIyns (DIOLP) 6144.4.

OMB Investign ThirdCode: Stabilist and Expresses (92): 1500-0,-1-302, Compressional Relativences: Essace Committee on Appropriationss: Interies: Statecommittee on Internative and Foreign Commenter, States Committee on Appropriations: Internet Subsemmittee State or Committee on Commence, Sciences, and Transportations, Sassir Committee on Energy and Naural Resources, Sance Committee on Sevenmental Mitries,

Data Sale Reference: 3-02900-051

Solijest Termin Economicane Modela, Roomenic Impact, Energy Policy, Poreotting, Senulation

Paraener Public Law 93-275, section 18, requires that the Admulstrator develop analyses of the economic impact of various energy policies on the economic vitality of regional, Strete, and local areas The project attempts to accomplish this purpose with the aid of an occnomic programming model Insist: Direct input coefficients, sectoral output, Government expenditures, unemployment labor forces, and population data can be internally developed. Regrenal data on exports, imports, investment, external fintness, and labor supply by shills will be collected by external agencies on a contractual basis. Contract: The model is basically a constrained multisectoral optimization model. The model is capable of identifying quantitatively optimal adjustments of the regional economy to changes in energy policies under a given set of resource constraints including energy. Forthermore, the perametric program feature of the model makes it possible to obtain different time profiles of optimum adjustment processes corresponding to alternative energy policy scenarios. Such efficient adjustments to alternative energy policies will be measured in terms of changes in region-industry specific output, income, value added, employment, consumption, saving, and capital accomulation. The model will be developed for each of the nine census regions of the United States. The model will be first empirically implemented and tested for the New England region. Output: A working paper and development of an in-house computer capability to monitor regional impacts of energy policies on a continual basis are the output. Availability Publicly releasable information is available through FEA's National Energy Information Canner

Agency Conton: National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

392

Regional Industrial Multiplier System (RIMS). 6144.5.

Other foreing Thio/Cener: Submot and Expenses (12:1500-61-103), the standard Extract, *House Committee* on Approximations intrate: Subcommittee, *House Committee* on Approximation of Departion, *Hous Committee*, on Approprisitosa Interior Sobornmittee; *Sease Committee* on Approprisitosa: Interior Sobornmittee; *Sease Committee* on Commerce, Solver, and Transfordation, Senser Committee on Barey and Natural Resources; Senser Committee on Gevernmental Africa,

Data Base Reference: S-02500-052

Subject Terms: Econometric Models, Boonomic Impact, Bacegy Policy; Porecasting; Simulation

Purpose: Public Law 93-275, section 18(a), requires the Administrator to evaluate impacts of actions on critical industrial acctors of the economy; employment on a national, regional, State, and local basis; and the economic vitality of regional. State, and local areas. Roquirements for regional economic impact analysis are also implied in sections 5 and 15 of Public Law 93,275 and in Public Law 94,163. Title V, Part C-State Energy Conservation Programs. The Regional Industrial Multiplier System (RIMS) was developed to help meet these requirements and will provide one means for identifying the regional dimensions of proposed national policy. In addition to serving as a basic modeling structure for regional impact goalysis, the data base will serve as input into other modeling systems being developed within FEA. Insut: RIMS was initially developed for FEA by the Regional Economic Analysis Division, Burean of Economic Analysis, Department of Commerce and consists of regionand industry-specific final demand multipliers and ratios for transforming gross output impacts into impacts on earnings and employment. The RIMS allows the analyst to consider the multiplier effects of one or more industries impacting on the economy. Required input is the initial changes in final demand (changes in output) by industry of interest. These changes must be estimated or obtained from business or other Government agencies. Cantent: RIMS can be used to derive input-output type direct and indirect production, carnings, and employment multipliers for every State and for the nine census regions. The State model diseasereastes multiplier effects into 103 industrial estegories. The census region model considers the 103 industries as well as 16 aggregated industries. The primary use of RIMS will be in analyzing site-specific impacts resulting from onersy-related activities. It is best spited as a tool for unlek-resonance analysis, providing timely estimates of the economic effects of energy policies on particular regions and critical industries within the regions. Solutions represent a static equilibrium for a given point in time. Model parameters can be updated as new information or new assumptions are made available. Output: The output consists of changes in gross output due to changes in final demand (total multipliers); changes in output by industry (direct effects and indirectinduced effects); changes in earnings (income from production) by industry; and changes in employment by industry. Output generation is not yet automated. Reports are provided on request. Availability: Publicly releasable information is available through FEA's National Energy Information Center.

Agancy Contests National Entrgy Information Center; 1200 Penssylvanin Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

393

FEA Household Every Expenditure Model (HEEM). 6242.

OMB Product The Constraints and Expenses / 92:1500-0-1-005. Compensioned Network and Committee on Appropriations: Intrior: Subcommittee on Internet to an Overnamic Operations. How Committee on Appropriations: Interse Committee on Appropriations: Interpretation; Snate Committee on Responsibilities, and Trainsportation; Snate Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snate Committee on Committee on Integra and Nateral Resources, Snateral Committee on Committee on Integra and Nateral Resources, Snateral Committee on Committee on Integra and Nateral Resources, Snateral Committee on Committee on Integra and Nateral Resources, Snateral Committee on Committee on Integra and Nateral Resources, Snateral Committee on Committee on Integra and Nateral Resources, Snateral Committee on Committee on Integra and Nateral Resources, Snateral Committee on Committee on Integra and Nateral Resources, Snateral Committee on Committee on Integra and Nateral Resources, Snateral Committee on Committee on Integra and Nateral Resources, Snateral Committee on Committee on Integra and Nateral Resources, Snateral Committee on Committee on Integra and Nateral Resources, Snateral Committee on Committee on Integra and Nateral Resourc

Data Base Reference: 5-02900-063

Sobject Terres: Constants; Econometric Models, Economic Impact; Energy Prices: Forecasting; Households, Income Databation, Prices, Simulation

Purpose: The HEBM model is a computerized data file containing 1973 energy information on approximately 50,000 U.S. households. The data file can be extrapolated into the future to forecast average household energy expenditures. The HEEM model helps in the evaluation of the unparts of energy events on the household sector of the U.S. economy and forecasts the impacts of higher energy prices on consumers and on the distribution of income. Jupat: In addition to the basic data file, the HEEM model contains software programs to acreen the data file to give output for various subgroups of households. Input to invoke the data file and the screening programs can be made with either batch or interactive access to the computer system. Input for extrapolation of the data file includes demand elasticities and prices for cosl, fuel oil, natural gas, bottled gas, electricity, and gaspline. Content: The data file was developed from the Public Use Sample of the 1970 Centus and from the 1969 National Personal Transportation Survey. The data file was statistically aged to 1973 and can be extrapolated to future years. The HBEM model contains data on housing, housing characteristics, prographic locations, income levels, demographic characteristics, and energy expenditures. Output: Optput is available on computer printouts on an as notded basis. Average Annual Household Energy Exnanditures are tabulated by income and by geographic region for the year of interest. Screens can be made to yield tabalations for various subgroups of the households. Total energy expenditures can be tabulated, or the tabulations can be senerated by fuel. Estimates are made to inducate the total number of U.S. households for each cell of the tables. Availability: The output is for internal FEA use only.

Agency Contocts National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

394

FEA Household Energy Survey. 6248.

ONB Fording Thir/Cene Solution and Expenses (2): 1500-6-1-05. Compressione Sharwarm. Hone Committee on Appropriations Interior Subnommittee Interact Committee on Appropriations Interior Subnommittee Interacts and Foreign Commerces. Sensor Committee on Appropriations Instricts Subnommittee: Sensor Committee on Commerces, Selection, and Transportations, Sensor Committee on Benergy and Netural Resources, Sensor Committee on Governmental Affairs.

Data Bosa Reference: \$-02900-064

Subject Terms Consumers; Energy Consumption; Households; Insulation, Surveys.

Purpose: The survey provides information used in the analysis of households' consumption of energy by income proups are race sex. and other socioeconomic and demographic characteristics. Insut This data source is the product of two nationwide surveys taken in 1973 and 1975. The 1973 survey's sample size is approximately 1,500 households. The same 1,500 households plus 1,500 new households comprise the 1975 sample. Context: Included is detailed information on households' ownership of atoliances, use of insulation, transportation patterns, and energy consumption. The file also contains data on the demographic and socioeconomic characteristics of the household including employment status, are, race, and sex, These data can be used to analyze the impact of energy policies including increased energy prices and the restructuring of electricity and natoral gas rates, on the residential sector and its various componenta. Output: Ouput is available on computer printouts. Analyses can be accomplished by linking this data file to statistical packages such as the Biomedical Statistical Package or the Statistical Package for the Social Sciences. Availability: Output is generally available for internal nee only.

Agancy Contact: National Energy Information Conter; 1200 Pennis/varia Ave NW, Room 1411, Washington, DC 20461; (202) 566-9025.

395

Facol Impact of Evergy Price Changes on State and Local Government Purchases of Goods and Servers 6235.

OMB heading ThirdCele's Statistics and Expenses (92:1520-0-1-30). Comparison Bartwares. How Commitse on Appropriations Inteolor Seboramilites (How Committee on Appropriations thouse ions). How Committee on Appropriations: Interior Subcommittee, Smart Committee on Committee, and Transportations, Subera Committee on Committee, Since and Temportations, Subary Committee on Energy and Matural Resources; Sense Committee on Governmental Influid.

Data Base Reference: S-02900-055

Subject Terms: Economic Impact, Energy Proces; Forecasting, Mathematical Models, Procurement; Simulation, States

Parager. The system is to estimate the dollar irenact on State and local government outlays for purchases of goods and services when energy prices change. This model is being developed as a result of Public Law 93,275 section 18, 15118 C 727 which requires that the Federal Feerey Administration take account of the fiscal impact of proposed Foderal entroy policy changes on State and Joral scoremments. Javat: Input into the model is data from reports respond for the Federal Energy Administration and from other public information, e.g., Survey of Current Business; Commendium of Public Finances; Governmental Finances; FEA Working Paper 76-WPA-12; and Research Triangle Institute reports to FEA in February and May 1976. Context: Impact estimates are made for individual States. These estimates result from one or more forth which have undergone a price change. Base year for data is 1967, and undates can be made as now data become available. Forecasts of impacts can be made for future years with various assumed energy price changes. The model makes use of energy use per dollar of purchases multipliers based on the 1967 U.S. input-output table. Output: No regular reports are provided. The system is used as an analytical system to address policy issues as they occur. Anallohilly: The output is for internal use only.

Aganny Contorti National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

396

Strevence Tex Model EIA-3.

OMB Funding ThirdCade Salarist and Expenses (20.1500-6-1-00. Comparison Relavence: Anas Committee on Approprintions interior Stocoumittee; Maxa Committee on Revenment: Opertion; Maxa Committee on Appropriations: Interior Subcommittee; Senser Committee on Appropriations: Interior Subcommittee; Senser Committee on Commerce, Solarise, and Transportations; Snoar Committee on Benzy and Natural Resources; Solarte Committee on Governmental Africa.

Data Base Reference: S-02900-055

Subject Terms: Economic Impact, Percenting: Mathematical Models; Minerals; Sovernee Tanas, Struktuton.

Proper: The system is to allicene sevenance taxes by State and types of production and to ministian any address file of the sevenance tax rates changes in order to project returns and budgetery impusite for those who extract minisch from land while the horizer of a particular State. These way from State to State according to type of minisch arcritection and the particular state in lands. A first the system containal information of writema text mole information. Content States of the state of the system state of the system containal information of writema text mole indication. Jonger the system containal information of the system states are stated as the system containal information of the system states are the system. Content states are stated as the system state state in contains. Jonger to make the system states are stated as the system states are stated as the system states are stated as the state state in contains. Jonger to make the system states are stated as the state state state states are stated as the system state as the contains. Jonger the states are stated as the system states are stated as the state state states are stated as the system states are stated as the states are stated as the state state states are states are stated as the system states are the states and the states are sta reports are produced. The system is used as an analytical system to address policy issues as they occur. Analothility: Output is intended primarily for internal use only. Publicly releasable information will be published in the National Energy Outlook.

Agency Contect: National Energy Information Center; 1200 Pennsylvana Ave NW, Room 1411, Washington, DC 20461; (202) 566-5025.

397

Crude Oil Pricing Model (DCROPS), 5272 1.

OME Funding Title/Code Subaries nod Exposes (92:1500-0-130). Cognaculates Maywases: Mose Committee on Approximations in streer Subaromitikes, Maare Committee on Qovernmael Opentors, Haur Committee on Intersteat and Foreign Commerces, Susue Committee Commerces, Safeter, and Transportations, Safeter Committee on Approprintions, interior Subcommittee Sub-Committee on Bergy and Natural Resources; Salese Committee on Governmental Africs

Date Date Reference: S-02900-067

Subject Termu: Crade Oil Productory: Energy Proces, Energy Supplies, Forecasting, Mathematical Models, Petrolecory, Simulation

Paypose. The model is to provide short term monthly forecasts (a 40-month period beginning February 1976) of prices of domestic crude, given certain assumptions about crude production. These forecasts are provided in response to the need for information in the formulation of regulatory policy at FEA. The Energy Policy and Conservation Act of 1975 (Public Laws 93-275 and 93-159) is the authority for controls on the proces of certain domestic crude oils. Aunt: The input is crude oil production points for February 1976, 1977, 1978, 1979, and May 1979; docline rate of lower tier oil parameters, lower/upper tier shift in production parameters; fronce parameters (month start and stop, prices to start and stop), and monthly volume and cost of first purchases of demostic crude oil by oil category. Chateau: The model provides forecasts of upper, lower, and stripper well production by month, given assumptions about upper/ lower allocation for each forecast period as well as other input parameters listed above It also forecasts composite crude price by month, computes required ceiling adjustments necessary for aggregate compliance, and computes excess or deficiency in producer receipts. Output: Principal reports are output on a monthly basis and contain price, output, and aggregate producer receipts data Availediling These are for internal use only.

Agency Contoct: National Energy Information Center; 1200 Pennsylvanis Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

298

Orade Orl and Natural Gas Production Model, 6272.2

Deto Baue Reference: 5-02500-068

Subject Terms: Coule Oil Production: Beergy Prices; Barryy Supplies; Pecesating: Mathematical Models; Natural Gas Production; Petroloum; Siryalatree

Parpuse: The model provides projections of prices and production for these fasts over a abort to intermediate time period. It provides input to the Pederal Berergy Administration periodents products forecasting system and to other systems requiring crude input forecasts. Production forecasts can be made under a wristy of proce celling strategies, reserve base estimators, and domand and sup-

ply clasticities. The solution method is an optimal control algorithm applied in an resource-exhaustion framework. The applicable miplementation authority is the Energy Policy and Conservation Act of 1975, Title IV, Section 401. Japan: The input is oil and ans reserves estimates from the Geological Survey, American Petroleum Institute and the American Gas Association; recovery cost functions from the National Petroleum Council, MIT Energy Laboratory, and Lewin and Associates; resource demand from FEA Regional Econometric Demand Model (RD4); regional and national domestic output growth rates; price ceiling regulations and decontrol schedules from FEA and Federal Power Commission: and canital productivity forecasts. Contene: This model produces forecasts of domestic crude oil and natural ass production and prices on n monthly, quarterly, and annual basis. It has been designed to operate in an analytic environment in which coiling levels have been imposed on wellhead prices of these resources at the national level. The model, when provided a national and regional set of demond everys for the resource and associated shortrun extraction cost functions and estimated rates of capital productivity growth, generates optimal resource extraction price and quantity vectors. The model solves iteratively for these optimal paths from the present through the point at which further resource recovery would not be profitable. The solution thus found is such that the present discounted value of marginal productivity of capital employed in resource recovery is constant over the life of resource doposits. Control variables at the discretion of the user are demand clasticity, initial resource supply, and growth rate of the economy. The model computes and reports optimal resource prices at each time period until exhaustion of economically recoverable resources; optimal resource production levels at each time period until exhaustion of economically recovershle resources; remaining proved and discoverable resource stocks; and cost conditions at each period as a function of resource stocks, production levels, time, and growth rate of technology. Output: Computer-generated reports are summary price and production forecasts, detailed quarterly forecasts for the United States and for FEA. regions, monthly crude oil phased decontrol analyses, and detailed annual and quarterly forecasts for major oil and gas fields. Availabil-Ine Publicly releasable information is available through FEA's National Energy Information Center.

Agency Contacts National Energy Information Center; 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 20461; (202) 566-9025.

399

FEA Crude/Transportation Model, 6121.

OMB Funding Tank Costs in and Exposes / 92-1500-0-1-205. Corgarestineal Jahream. Have Committee an Appropriation: Intedior Subcommittee on Internet con Overnamic Uperatorior, Have Committee on Appropriational Interior Soriegin Commerces, Senser Committee con Appropriational Interior Soriegin Commerces, Senser Committee con Commerces, Science Committee, Smo Committee on Energy and Natural Researcesy Sonser Committee on Devenmental Africia.

Data Base Reference: S-02900-069

Subject Termes: Crude Oll; Energy Policy; Energy Supplies, Fuel Allocation; Mathematical Medels; Petroleum; Pipelices; Simulation.

Proper The system is to determine optional location and spectral of totage in the Avotwork strategies, and allocation of surtrategies of the system in the system of the system is a function of the system of the system. The respect is a function of the system of system of the system of system of the system of the system of the system of the system of system of the system of the system of the system of the system of system of the sy Agency Contact: National Energy Information Conter, 1200 Pennsylvania Ave. NW, Room 1411, Washington, DC 23461, (202) 566-9025.

FEDERAL POWER COMMISSION

400

FPC Budget Files

Processing in the OMB Funding Tila/Codit: Salaries and Expenses / 26 0100-1-0-305. Congrussional Relavance: Houre Committee on Appropriations: Public Works Subcommittee; Hare Committee on Intenfor and Insuitar Affling: Houre Committee on Intensita and Foreign Commerce; Sensiv Committee on Interstate and Foreign Commerce; Sensiv Committee on Appropriations: Public Works Subcommittee; Sensiv Committee on Energy and Natural Resources.

Data Base Reference: S-03300-001

Sublect Terms: Budget Information Systems, Resource Allocation.

Parasse: The purpose is to collect and maintain quantitative and narrative information necessary to develop and justify annual budget estimates to the Office of Management and Budget and the Congress. and to monitor Agency budget execution. Input: The data are internal input from the various bureaus and offices of the Commission. Content: The system contains annual bureau and office statements of current and projected positions, workload, space, equipment, travel, personnel compensation; personnel benefits travel; rents, communications and utilities printing and reproduction; supplies and materials: equipment: outlays: total obligations and inventory of ADP systems: and budget programs, as follows: water resources analysis: hydroelectric project licensing: electric utility regulation; gas certificate regulation; gas rate regulation; industry systems analvsis; regulatory compliance; administration; and distribution. In addition, a narrative justification is submitted along with annual statements of Commission collections and payments. Output: Annual budget estimates to the Office of Management and Budget and the Congress (manual, hardcopy) are the principal reports. Availa-Miller Congressional budget estimates are available publicly following submission of the President's bodget to the Congress. Supporting data are for internal use only.

Agancy Contact: Office of the Comptroller; \$25 North Capitol St., Washington, DC 20426; (202) 275-4789.

401

Official FPC Files and Records.

OMB Fording Title/Codu: Salaries and Expenses / 26-0100-0-1-005. Congruntional Relavancia: House Committee on Appropriation: Public Works Subcommittee; House Committee on Interior and Insular Affinit; House Committee on Interior and Foreign Commerce; Sense Committee on Appropriations: Public Works Subcommittee; Sirveav Committee on Commerce, Science, and Transportable; Sense Committee on Energy and Natural Resources.

Data Base Reference: S-03300-002

Subject Terms: Electric Utilities; Energy; Management Information Systems; Natural Gas.

Propue The purpose is to contraitly control and maintain the offin lengiatory first and records of the Votent Power Commission. *Equal:* External awares input instuder required reports and regultory applications and fillings aimitted by detection utilities and natural gas companies, internal is put detected attrait and space, leagt a spren, and other data submitted by the Commission, PTC and the data total control of the data submitted by the Commission, PTC and the data total control of the data submitted by the Commission, PTC and the data total control of the data submitted by the Commission, PTC and the data total control of the data submitted by the Commission of the data submitted total control. Contem C information controls of reports and the future. matics covering dictics adheses and natural gas comparies subing to the Commension liquidition, inducing meaning appear, natural gas producer, gas optimist me dictions the schedules and struttly, and volumes 2 commission nations covers, and optimus. Also entainmost an advects interes and a cases likel, the effection structure in the other commission, nationary regulars single galaxmetric liquidities and structure in the structure of the schedule structure in the specific covers in the structure of the schedule schedule schedule schedule schedule schedule schedule and the schedule covers to here schedule schedule schedule schedule Code of federal Regulations, or cover orders, the informatics are produced schedule schedule schedule schedule schedule schedule and schedule sc

Agancy Contact: Office of Regulatory Support Services; \$25 North Capitol St., Washington, DC 20426; (202) 275-4970.

402

Copents, Rancoal, and Exansure Informatism Fuk (RISCRD) OMB-houting Hittachesi Sahirin and Bayanca (24-000-0-1-05). Congonational Raiveneur Music Committee on Interior and Intolia Affaire, House Committee on Interestien and Faceliga Carnetore, Sance Committee on Reportationare Patient Works Subcommittee; Sonce Committee on Committee, Science, and Frantorialism. Sonker Committee on Committee, Science, and Franoralism. Sonker Committee on Responsibility of Resources.

Date Base Reference: S-03300-003

Subject Terms Class A Electric Utilities, Electric Utilities, Electry, Penneul Maniformy: Natural Gas Pspeleces; Pspeleces; Privately-Owned Utilities; Pubhe Utilities.

Parasser The purpose is to provide monthly and annual financial data on the electric industry and natural gas pipeling industry used by FPC, State Regulatory Commissions, Congress, other Federal areactics, the seneral public, and others. Justic Sources for the data are the electric utilities and natural gas pipeline companies as stated. below filing annual reports, FPC Porm 1, 1-M, and/or FPC Porm 2. as prescribed under the requirements of the Federal Power Act and Natural Gas Act. Monthly reports, FPC Form 5, are filed by all electric utilities having \$2.5 million or more in electric operating revenues and FPC Form II, filed by the major interstate natural sas pipeline companies whese combined sales for resele and ass transparted (interstate) or stared for a fee exceeded 50 billion cubic feet during the preceding colonder year. Content: Financial data are submitted monthly and annually on public use forms from privatelyoward electric utilities: publicly-owned electric utilities: natural gas renelline companies: Class A cleotric utilities: and major interstate natural gas pipeline companies. Output: Hardoopy press releases cover data on Class A and B newately-covered electric atilities and major interstate natural gas pipeline companies. Several annual statistical publications are generated in printout form. All output is accessible by terminals. Availability: The output is publicly availahie from the FPC Office of Public Information.

Agency Contect: Office of Accounting and Finance; 825 North Capitol St., Washington, DC 20426; (202) 275-4037.

403

Gas Sacoly Indicators

OMB Funding Titler/Codes Islaries and Expenses / 26-0100-01-305. Congressioned Relevance: Mass Committee on Appropriations: Public Works Subcommittee, Indue Committee on Interies and Insular subar Affinis; Huare Committee on Interestize and Persign Commences, Sensie Committee on Appropriations: Public Works Subcommittee; Sonsie Committee on Commerces, Science, sand Transportations: Sensie Committee on Commerces, Science, sand Transportations: Sense Committee on Commerces, Science, sand Transportations: Sense Committee on Energy and Nateral Resources.

Date Base Reference: 5-03300-004

Subject Towns: Drilling; Energy Supplier; Natural Oas Pipelines, Natural Oas Reserves; Pipelines.

Pursage: Cas Supply Indicators data are compiled to receive quarterly analyses of industry trends affecting ass supply. The criterion of the statutical series is their value as leading indicators of the industry response to changing economic conditions and regulatory nohours Issair: Data sources for the report are: 1) Mineral Industry Surveys, U.S. Department of the Interior, Bureau of Mines, Marketed Broduction, Imports and Exports of Natural (Jar. 2) Sederal Power Commission, Sales by Producers of Natural Gas to Interstate Pareline Companies - EUC Forms 2, 24: 1) Eaderal Board Compilesion, Form 11 - Natural Gos Pineline Purchases from Producer and Sales to Elitimate and Retail Customers: 4) Hughes Tool Company workly reports to the Drilling Contractor: 5) Hughes Tool Company Active Rotary Rig data reported weekly to the Oil and Gas Journal 6) American Petroleun Institute, Ouarterly Review of Drilling Statistics for the United States: 7) World Oil: 8) Bulletin of American Association of Petroleum Geolomsts: and 9) Contract data reported to the FPC. Bureau of Natural Gas. Content: "Gas Supply Industots" includes annual and quarterly national data on marketed production, producer sales to interstate tinelines, number of active drilling riss, exploratory and development drilling, and new contract sales by producers to interstate pitchnes. Breakdowns of national series are made for offshore and FPC nice areas. It includes a series of initial rates paul by interstate pipeline companies for natural east under new long term and short term (emergency) contracts. The series covers the period 1970 to date and is undated counterly. Outsuc A quarterly report with text, tables, and charts is produced. Availability: It is publicly available from FPC. Office of Public Information

Agency Centeds Office of Economics; \$25 North Capitol St., Washington, DC 20426; (202) 275-4170.

404

Bulk Electric Power System Religibility.

Coll Fording Tells (Cole: Staticizes and Expenses / 26-0100-0-1-305, Congressional Relaycoses. House Committee on Appropriations: Public Works Statocommittee; House Committee on Interiors and Interiors and Interiors and Interiors. Marking Commercos, Sense Committee on Appropriations: Public Works Stato Subcommittee; Senser Committee on Commerce, Science, and Transportation; Subvic Committee on Commerce, Science, and Transportation; Subvic Committee on Reargy and Natural Resports.

Data Base Reference: S-03300-005

Subject Terres: Electric Power, Electric Powerplants; Energy; Power Load Forecasting; Privately-Owned Utilities, Public Utilities; Reliabelity.

Purpose The purpose is to evaluate matters concerning power interruptions, load reductions, and balk power supply hazards; to determine suitable reliability criteria and standards of operation and planning: to study the effects of transmission line interconnections on the reliability and economy of nonzer supply including the maintenance of extensive and up-to-date transmission line maps; to determine the causes of emerating plant unreliability and methods of improvement; to study the means of providing adequate generating capacity at lowest cost: and to study the methods of load forecasting. Junet: Public une forms (FPC Forms 12, 12A, 12D, 12E-2, 12F) are filed periodically by electric utilities (nowned) withinlyowned, and cooperatively-owned). Reports are filed under Order 331-1 as the need arises due to service internations. Annual reports are compiled and filed in response to FPC Order 383-3 on a volumtary basis by the nine Regional Electric Reliability Councils, Reports are filed under Order 445 when utilities modify their continuency procedures. Minutes of the meeting of technical and administrative committees of the Reliability Councils and attendance by Bureau of Power staff engineers at such meetings are included. Attendance and perticipation in conferences and meetings of the national engineering societies and similar organizations are included, as well as information received from Government agencies and other sources. Form 12E-2 has 5 schedules; one is filed monthly, the other four semiannually. There are 269 respondents; some are individual utilities, some are pools responding as a single entity on behalf of their members, and some are holding companies responding as a single entity on

behalf of their subsidiaries. Form 12F is filed annually by some 550 utilities owning or planning transmission facilities at 69 ky or greater voltage. Centent: FPC Forms 12 and 12A are annual renorts filed by electric utilities, giving information concerning energy modure tion, transfers of merzy and canacity, loads, senerating units, and planned caracity. FPC Form 12D is similar to Form 12 but much abbreviated and is filed at Sugar intervals by very small utilizies Reports are filed under Order 331-1 by milities suffering an interruntion to service, as the occasion arises: these reports describe the particulars of the equipment failure or other circumstances that called an unformers interruption of service to cuttomers. Reports are filed under Order 445 when a utility changes its procedures for dealing with sinustions in which load exceeds (or threatens to exceed) capacity. The information reported describes the procedures to be instituted by the utility in the event of an emergency. The reports filed by the Reliability Councils under Order 383-3 summaring on an integrated regional basis the 20 year projected planning of the utilitits in each Council ante. For the first decade information is siven in significant detail. For the second decade the information is more anneral. Through attendance at and participation in meetings of the various engineering societies, information is obtained concerning technological studies and advances in the area of engineering such at materials components desires mathematical methods of system analysis, reliability studies, and economics of engineering. Data received from Government agencies consist of historical statistics and projections. The information is supplied by Federal and State agencies for the most part, some of it annually, some biennially, and some as the occasion arises. Form 12E-2 provides information on construction plans and changes in generating cannoity and transmission lines, and load forecasts semiannually. It provides actual load and categity data monthly. Form 12P provides information on transmission planning at voltages of 69 kv or higher. Output: The principal reports are a series of special studies on: 1) "Interstate Status" of electric systems; 2) the market for power from Federal and licensed hydroelectric projects; 3) the electric power aspects of environmental statements of nuclear and fossil fueled powerplants: 4) annual reports summarizing and discussing the load and caracity projections of the Reliability Councils for the following ten-year period and for the succeeding ten-year period; 5) semiannual reports summarizing load and capacity estimates for the forthcoming winter and summer peak load periods; 6) semiannual reports summarizing the status of planaed sentrator construction, completion of units and causes of delays in completion: 7) reports on special topics related to bulk tiectric power supply-Powerplant Availability, System Controls and Communications, Reserve Practices and other torics: \$) opertories reports summarizing data concerning systems outages affecting supply to customers and an annual report summarizing data concerning transmission lines; 9) maps of the U.S. transmission system, undated periodically; 10) special reports such as National Power Survey, and Bulk Power Supply analyses in response to congressional queries: and [1]) werbal reports in response to requests for information from NRC, FEA, ERDA, GAO, OMB, State agencies, and members of the public. Availability: All studies are available on request.

Agency Contoct: Division of Power Supply and Reliability; \$25 North Capitol St., Washington, DC 20426; (202) 275-4718.

405

Electric Power Fuel and Environmental Analyses.

OMB Funding THis/Code: Salaries and Exponses / 26-0100-0-1-305. Congressioned Relevance Mass Committee on Appropriations: Public Work's Subcommittee, House Committee on Interiors and Esalar Affinit, Houre Committee on Internate and Poetign Commerce: Snave Committee on Appropriations: Public Work's Subcommittee, Snave Committee on Commerce, Solence, and Transportations: Snave Committee on Commerce, Solence, and Transportations: Snave Committee on Commerce, Solence, and Transportations: Snave Committee on Energy and Natural Resources.

Date Base Reference: S-03300-005

Solver Tennie: Air Polletion Control, Electric Power; Energy Prices; Brivinonmenial Assessment; Porceasting; Simulation; Thermal Powerplants; Water Polletion Control.

Federal Information Sources and Systems

Purpose: The purpose is to analyze and evaluate information on electric powerplant fuel supplies, transport, stockolles, cuslity, and costs: to determine the environmental effects of steam-electric nowerolants and associated facilities upon air and water duality and the esthetic effects of transmission line installations; and to determine the effect of feel and environmental control costs on the cost of electricity to consumers. Input: Input includes public use forms (FPC Forms #67 and #423); data from other Government secucies (Department of the Interior, Environmental Protection Agency, Eneray Research and Development Administration. Federal Entray Administration): data from industry associations (National Coal Asnotiation. Edison Electric Institute, Electric Power Research Institote); and private communications with electric power industry representatives. Content: FPC Form #67, titled "Steam-Electric Plant Air and Quality Control Data" is filed annually by some 850 steam-electric plants from all parts of the United States, having a canacity of 25 megawatts or greater. The data include the following information: 1) Air Quality Control Data-fuel types, cuantities, and quality; boiler designs, flue gas cleaning equipment, amounts of pollutants discharged to the atmosphere, disposal of ash and sulfur waste products, cost of six collution control- 2) Water Quality Control Data-cooling water provisions, types of cooling systems, thermal and chemical discharges; 3) Future Air and Water Quality Dataprojected plant expansions; quantity, quality, and source of future fuel requirements; projected plant water user and 4) Plans and Costs for Mentine Air Pollution Standards-applicable air pollution control regulations, proposed method(s) for achieving compliance, pollution control costs associated with achieving compliance. FPC Form #423. "Monthly Report of Cost and Quality of Fuels for Electric Plant," is filed monthly by some \$50 plants from all parts of the United States burning fossil facts and having a total combined (steam-clectric combustion, turbine, and internal combustion) generating capacity of 2.5 meanwatts or areater. The form includes information on the type, quantity, quality, and price of fossil fuels delivered to electric powerplants; source of the fuel; and type of nurchase. Outsut: Steam-Electric Plant Air and Water Ouality Control Data is published annually. The Monthly Report on Fuel Cost, Outlity is published monthly. The Annual Summary of Cost and Quality of Electric Plant Fuels, with special supplements on the origin of coal delivered to electric utilities and a comparison of the sulfur content of ooal with applicable suffer regulations is published annually. These are all hardcopy. Availability: All reports are publiciy available.

Agency Contest: Division of Power Surveys and Analyses; 825 North Canitol St., Washington, DC 20426; (202) 275-4677.

406

Hydro and Electric Recurring Data Reports.

OMB Funding This/Code: Salaries and Expenses / 26-0100-1-105. Corporational Relevance. Hour Committee on Appropriators: Public Works Subcommittee, there Committee on Interior and insalar Affins; Hour Committee on Interstate and Foreign Commerce; Sense Committee on Appropriations: Public Works Subcommittee, Sense Committee on Commerce, Science, and Transneution: Soviet Committee on Energy and Natarial Resources.

Data Base References S-03300-037

Subject Terms: Electric Power Generation; Electric Utility Rober, Energy Constantpilen, Financial Statements; Hydrostextric Power; Privately-Owned Utilities; Public Utilities.

Purpose: The purpose is to provide for a series of authoritative provides PPC publications and statistics (relative to the generative), or detortion energy) that ner regularly under the provident and provide the provident and the provident and the provident foreign generative set. In Under Nations organizations are provident and the provident and the provident and the ions forman set (field by the utilities with the PPC, Context: The context: includes: 1) Annual Report (Classes A and B). Dealth is the orthogonal provident and b) and b) and b) and utilized with indext: operating and the provident and b).

Energy Digest SEPTEMBER 1977

March 31, 2) Annual Report, Municipal Floctoir Utilities, Somilar information from municipal electric utilities with annual revenues of \$250,000 or more. Due Merch 31: 3) Typical Net Monthly Bills for Residential Service. Filed annually by selected power suppliers in each State for specified communities, typical net monthly bills for nower at retail for residential service for communities of 2,500 or more notulation, and commercial and industrial service for communities of \$0.000 or more, or if there are no cities that size, the three largest. Due shout Estenary 15 4) All, Electric Homes Data Sheet Filed annually by power suppliers in all office basing populations of 50.000 or more or supplying the three largest cities, not annual rotail bills for all-electric homes computed under rates applicable January I. Also intest information on number of all-electric customers and average electric consumption. Due April 15: 5) Monthly Powerplant Report. Filed by all electric utilities with generating capacity, monthly information on generation of electricity and consumption and stocks of fuel (Form 4-white). And from a selected sample of industrial establishments, severally with installed generating capacity of 5,000 kilowatts or more (Form 4-nink). Due 10 days after month reported; 6) Monthly Statement of Electric Operating Revenue and income. Monthly information on operating revenues and income, filed by all privately owned electric ptilities with annual electric operating revolues \$2.5 million and over, and certain publicly owned utilities. Due about 40 days after end of month: 7) Industrial Electric Generating Canacity, From all industrial establishments which oward or operated generating capacity, other then motor generators, at any time during the year and did not report monthly on Form 12-E2. Due May 1: 1) Summary for National Floctric Rate Book. Selected retail rate schedules of electric utilities. toth public and private, for inclusion in the FPC National Electric Rate Book. Filed periodically as requested by PPC: and 9) Retail Rate Level Change, All changes in retail rates, filed within 60 days of date of change, from all electric utilities serving at least one community of 2,500 or more population. Outsut: The principal hardconv reports produced are: 1) Electric Power Statistics and advanced news release - hardcony, monthly; 2) Typical Electric Bills - hardconv. annual: 3) All-Electric Homes - hardconv. annual: 4) Statistics of Privately Owned Electric Utilities - hardcopy, annual; 5) Statistics of Publicly Owned Electric Utilities - hardcopy, annual; 6) National Electric Power Generation and Energy Use Trends - hardcopy, quarterly. 8) Summary of Canacity, Production and Fuel Consumption hardcorre, annual: 9) Retail Rate Increases - hardcony, quarterly: 10) Supplement to Yearly Typical Electrical Bill Report (500 kwh) hardcopy, quarterly; 11) Power Production Generating Capacity Data for 1970 to 1975 - hardcopy, annual; and 12) Monthly Comnarisons of Peak Demends and Energy for Load by Power Supply Areas - hardcoory, annual Availability All publications are publicly available from the FPC; publications 1 through 5 are also available from the GPO.

Agancy Contoct: Division of Power Surveys and Analyses; 825 North Capitol St. Washington, DC 20426; (202) 275-4731.

407

Hydroelectric Power Resources of the United States (HPR).

More thank that the second of the second sec

Data Base References S-03300-008

Subject Terres: Electric Power Generation; Hydroclastric Powerplants; Powerplants

Purpose: The purpose is to keep current an inventory of all existing hydroelectric plants in the United States and of potential undeveloped hydroelectric power siles; and to provide summaries by various categories, bitterical data, and fereness? for future development of hydroelectric power. Apart: Data on existing bydroelectric

powernheats are obtained from reports received by the Commission from both privately- and publicly-owned electric utilities and from reports on industrial generating plasts. Data on the undeveloped hydro nowor resources are obtained from vanous sources which include reports and studies by Federal, reponal, State and local attencies, studies by private interests and applicants for licenses or permits from the Commission, or from any other available source Acts of Congress such as the Wild and Scenic Rivers Act provide input that identifies exclusions and potential exclusions from the data file. Contenty Each moned in the data file on magnetic tape has 999 characters which erowde for 160 stems of descriptive information on each hydrocloctric plant or site. These items include names of plants, sites, and reservoirs; locations by streams, major drainoges, States and repons, by coordinates, elevation, nyer miles and relative sequetce on over reaches; drainage areas and average inflows; dam and reservoir descriptions: project purposes; type of project; license project numbers and action dates, plant data items, utcluding generator ratints, number of units, states, average annual generation, head capability, hydraulic capacity, types of turbine and power conduity cost data, numerous processing codes and other items of information and perusent remarks. Output: The principal reports are "Hydroelectric Power Resources of the United States, Developed and Undeveloped," every four years; an annual list of Federal hydroelectric plants in operation, under construction, and authorized: listings of 40 items from each record of the data file and four cross indexes in computer output formats; and certain summaries and tabelations of this data appearing in the annual report of the Federal Power Commission. Availabilities "Hydroelectric Power Resources of the United States" is available from the Superintendent of Documents, U.S. Government Printing Office. Computer Internet of selected plant and site data are generally for internal use, but are available on special request. A computer printout of each entire tape record is available on FPC Form 557.

Agency Contoct: Division of Rover Resins; 825 North Capitol St., Washington, DC 20426; (202) 275-4684,

408

Electric Regulatory Astronom

OME Funding Time/Code: Salarnes and Expesses / 26-0103-0-1-305. Congressional Relevances: Mose Committee on Appropriations PUBL Work's Subcommitter, Rose Committee on Internet and Involter Affairs; Rose Committee on Interstate and Foreign Comnerce: Soark Committee on Recrymational: Public Works Subcommittee, Snew Committee on Commerce, Science, and Transportition; Stavik Committee on Recry and Nataral Relevance.

Coto Base Reference: 5-03300-028

Subject Tauren: Electine Utifity Rates, Proce Regulations, Public Utilitaes, Public Utility Rates: Utilitys.

Purpose: The purpose is to provide information concerning the electric utility regulatory workload of the Commission, electric rate schedules on file with the Commission, and the status of formal electric rate casts pending before the Commission Anyout All information is derived from internal sources. Content: The subsystems and their contents are: 1) Quarterly summary of electric regulatory activities - provides workload data on electric rate filings and cases for current and provious quarters, summary of rate cases pending at end of quarter, and number of cases and dollar value of corrorate transactions pending for corrent and previous quarters; 2) index of electric rate schedules - lists all electric rate schedules filed with the Commission, including names of selling companies and other parties and types of electric service provided. Index is updated and reissued cuarterly; and 3) slohanumeric Index by Company Name and Docket Number - lists alphabetically by electric utility (and by docket number where more than one case is pending) the docket number, status, assignment and internal activity for all forwal startrio rate cases. Covers all cases since 1974. Output: Summaries of electric regulatory activities are issued quarterly as Commitsion news releases. The index of electric rate schedules is a quarteely computer printout, reproducible in handcopy, of approximately 350

pages, hiphanumeric order, and labeller. The index by company name and docket names is a hardcoay computer principal monthly, is columnar formet and alphanumeric order. Areilability: Summaris of electric regulatory activities and the index of electric rate schedules are swellable to the probler. The index by company name and docket numbers a produced for interval only.

Agency Centert: Division of Rates and Corporate Regulation; 825 North Cepitol St., Washington, DC 20426; (202) 275-5667.

409

Proor Survey and Systems Evaluation.

OMB Funding Title/Code: Salarses and Expenses / 26-0100-0-1-305. Congravationed Ralevance. House Committee on Appropriations: Public Wecks Subcommittee, House Committee on Interiors and Insalar Allams, House Committee on Interiors and Insalar Allams, House Committee on Appropriations: Public Wecks Subcommittee, Seaste Committee on Commerce, Science, and Transportation; Savete Committee on Commerce, Science, and Transportation; Savete Committee on Energy and Natural Resources.

Date Base Reference: S-03300-010

Subject Termic Electric Power Generation, Electric Powerplants; Enorgy Policy; Financial Statements, Privately-Owned Utilities; Public Utilities; Utilities

Parpose: The purpose is to investigate the electric power industry, including its characteristics, demands and supplies, structure, markets, and value of power, and to project future development patterns of the industry, the costs of electric power, and the impact of public policies on the industry. Input: Information is derived from electric power industry reports submitted to the Commission, including certain FPC public-use forms (FPC Forms 1, 12, 12E), staff analyses and reports, and reports of government-industry advisory Committees. Consust: Industry reports are submitted to the Commission monthly, somennually, and annually, and cover all aspects of electric power generation for every peographic region of the Nation. Advisory Committee reports are submitted as requested and proconcerned with specific topics, such as power supply, fuels, finances, conservation, research and development, power supply adequacy, and environmental issues. The Committees are established to consider a particular issue, and their reports and recommendations are used as source material in the development of Commission policies, Public use form data include the following: 1) Form 1 detailed financial and operating information filed annually (March 31) by all privatchy-owned electric utilities with annual electric operating revenues of \$1 million or more; 2) Form 12-annual power system statement (due May 1) filed by all systems which generate at least part of their own power and whose not energy generation exceeds 20 million kilowatt hours per year, and 3) Form 12E-o monthly supplement to Form 12 listing the near-term summer or winter load supply situations of the responding utilities and related transmission and generating facility dolays. Output: Advisory Committee and Commission reports covering various electric power industry issues and problems are published as nocessary. Periodic hardeopy reports of seasonal load-supply situations (national and regional) are published. Annual hardcopy reports are published listing plant costs, operating and fuel expenses, and related data for steam-electric, hydroelectric and gas turbine powerplants. Availability: All reports are available to the public through FPC or the Government Printing Office.

Agency Contact: Division of Power Surveys and Analyses; 825 North Capitol St., Washington, DC 20426; (202) 275-4766.

410

Status of Pending Hydroelectric Applications

OMB Fending Titls/Cales: Subject and Expenses / 26-0100-0-1-305. Comprision® Heliveneen Hause Committee on Appropriations: Public Works Subcommittee, House Committee on Interiors and Insular Affairs; House Committee on Interstate and Foreign Commerce, Same Committee on Appropriations: Public Works Subcommittee, Steare Committee an Commerce, Science, and Transportation; Same Committee an Commerce, Science, and Transportation; Same Committee on Energy and Natural Resources.

Data Base Reference: 5-03300-011

Subject Terms: Hydrocleging Powerplants, Licenses, Powerplants,

Parasse: The manpose is to provide information concerning the status of hydroelectric project applications pending for preliminary permits, licenses, license amendments, transfers, or surrenders, and other matters related to the Commission's hydroelectric licensus program under Part I of the Federal Power Act. Input: Information is derived from applications submitted to the Commission and from input at various stages of application processing. Content: The system movides the applicant name. FPC project number assumed, date application was filed, processing status of the application, installed generating canacity of the project, the engineer assigned, and a brief description of the type of application. A separate subsystem also provides a brief parrative history of applications involving new hydroelectric generating capacity. Output: The overall system prevides an automated, hardcony status report of all pending applications. It is published quarterly but can be updated more froquently. The system can be queried by applicant, status category, type of application, and project number. The quarterly new capacity report is manually produced. Assilebility: The reports are for internal use only.

Agency Contoct: Division of Licensed Projects; 825 North Capitol St., Washington, DC 20426; (202) 275-4863.

411

Special Reports Issued by the FPC and Federal Power Commission Publications.

OM8 Funding Thits/Codu: Salaries and Expresso / 26-0100-0-1-30. Compressionel Relaxences: Houre Committee on enteries and Insular Athies; House Committee on Internates and Poreign Commetce, Sararie Committee on Internates and Poreign Commetce, Sararie Committee on Reprintisients Public Workts Subcommittee, Sease Committee on Commerce, Staince, and Transorgatious: Smorth Committee on Reservate Associates, Staince, and Trans-

Data Base Reference: S-03300-012

Subject Terms: Electric Power; Information Services; Maps; Natural Gas.

Parmate: The purpose is to provide to the press, the Congress, other Oovernment accories, the regulated industries, and the seneral public with information on availability of publications and reports issued by the FFC. Insut: Information is submitted by internal sources, including all organizational units within the FPC. Content: Them publications list special reports and publications issued by the Federal Power Commission. Reports are grouped under general, electric power, natural gas, special report, and map categories. The list of special reports covers reports available free of charge from the Office of Public Information. Title, date of issue, and nows release (NP) number (where applicable) are provided. Publications contained in the publications list are available from the Superintendent of Documents, U.S. Government Printing Office. Title, date of publication, price, and description of contents are provided for each. These are undated as processary. Output The output consists of statistical reports, rules and regulations, decisions and opinions, operating data, special gas and power studies, maps, cost and rate information, power and gas savings, gas cartailment reports, electric load sunniv projections, and other matters, revised periodically. These are monthly, quarterly, annually, or as necessary. All are hardcopy publications. Availability: Reports are publicly available. from GPO_NTIS, and FPC. Availability varies from report to report.

Agency Cestoat: Office of Public Information; 825 North Capitol St., Washington, DC 20426; (203) 275-4006.

412

Notural Gas Industry Evaluation Systems.

OM8 Funding Title/Code: Salaries and Expenses / 24-0100-01-103. Congruentiated Relaxance House Committee on Appropriations: Public Works Subcommittee, House Committee on Interior and Interior and Interior salar, Affairs, House Committee on Interacting and Poreign Commetrics, Sanaré Committee on Interacting and Poreign Commetrics, Sanaré Committee en Connarcero, Science, and Transperatione; Sanaré Committee en Connarcero, Science, and Transperatione; Sanaré Committee en Contractero, Science, and Committee en Contractero, Science, and Transperatione; Sanaré Committee en Contractero, Science, and Committee en Contracter

Deta Bose Reference: S-03300-013

Sabjact Tenner Energy Industries; Presenting; Gas; Natural Gas, Synthetic Peals.

Purpose: The National Gas Survey was established by a series of Commission orders, in accordance with the requirements of the Federal Advisory Committee Act, to provide the Commission, the public, and the industry with information designed to provide a clearer micture of the meterol and future course of the natural gas industry than could be obtained from the mass of unevaluated statistics and information currently available. This information is required for effective regulation of this industry. Apart: The data in this system are the end product of a combined effort, directed by the Commission in which Preieral and State seconies, industry representatives, and members from academic institutions and technical societies all participate, utilizing all industry knowledge, data, and information currestly available. Contrat: The information in the system includes analyses of natural gas resources, natural gas industry technology, industry erowth trends, and the anticipated interaction of probable fotore merket forces, assuming various public policy and private industry decisions. The impact of featers technological changes in carefully considered. The program goal is a periodically updated, commenterative analysis of the future energy situation, and an overview of the natural gas industry and its probable future course. The National Gas Survey is nationwide and worldwide in scope. Output: The principal output of the server will be hardcopy reports on the following aphiect areas: nonconventional natural gas resources, synthesized gaseous hydrocarbon fuels, regulatory aspects of substitute ras, rate design, impact of the gas shortage on consumers, efficiency in the use of gas, finance, and curtailment strategies. Availability: The system's output in the form of task force reports, preliminary summaries (chapters), and final, Commission approved reports (volumes) is available to the public. The source of published volumes is the U.S. Government Printing Office, All other documents are available through the Commission's Office of Public Information and/or from National Gas Server files.

Agency Contact: Bareau of Natural Gas; 825 North Capitol St., Washington, DC 20426; (202) 275-4516.

413

Natural Gos Company Operating Information File.

OMB Fonding Title/Code: Satries and Expressed / 26-0100-0-1-305. Congenitational Relations I finite Committee on Appropriations: Public Works Subcommittee, Heard Committee on Interiori and Insatar Affaring Houre Committee on Interestite and Poreign Commences, Smooth Committee on Appropriations: Public Works Subcommittees, Senset Committee on Commerce, Science, and Transporticities, Senset Committee on Connerce, Science, and Trans-

Deto Boso Reference: S-03300-014

Subject Terms: Energy Industries; Exports; Imports; Natural Gas; Natural Gas Pipelines; Pipelines.

Pappase: The Natural Gao Campany Operating Information IIIs provides the Commission and its problem its facella distant and infornation as various aspects of the regulated natural gas looksity yorks a correror, genotection, production costs, ocetterci and or tee filing summaries, undergrands starge, imports and exports, pipeline cartilinents, pipeline costructulo costs, and interstate control tripless reacived by jurisdictional comparies. It also encompasses natural gas company compliance filings, areas new refutor reports, and certificate films fees made by these companies. This file is maintained under the reneral requirements of soction 14(a) of the Natural Gas Act. Insat: The data in this file are derived from official FPC data collection forms, various compliance filmes, and other reports required to be filed by natural sas pitching and producing companies under the Commission's jurisdiction. Consent: The natural are company operating information file contains the following information: Dedicated year-end reserves and annual interstate production by company, by State and FPC production area, updated annually: producer expenditures, exploration and development activity, reserve additions and revenues by company updated annually; jurisdictional producer intra and interstate penduction and manyes by company, undated annually: underground storage volumes by company, by geographic reany, causing out a storage volumes of company, by geographic feunderground storage volumes, caracity, deliverability and nost by company, by generaphic region, by field, undated annually; imports and export volumes and monthly prices by company, by FPC docket, by location, undated annually: actual and estimated niceline requirements and curtailments by company and region, annual and winter basis undated semimenally: actual monthly ourtaliments by company, by State, updated quarterly; pipeline construction costs by mile by nine size, by function, by company, by EPC docket, by geographic region, updated annually; monthly intrastate contract prices by company, by EPC production area, by State, undated operterisy listing of regulated piteline companies by type and size he service area, undated terniannually: average wholesale and reises for 14 large metropolitan areas, undated anomalis: reserve dedications by company, by FPC production area, by purchaser, undated monthly field code listing by county and State name and code, hower, seller and small penducer onde listings with name changes and date of change, active or inactive atotus; and jurisdictional contract and rate summaries by company undated continuously. Output: The system output is keyed in most instances to the frequency of reporting via official EPC data collection forms filings and reports These include pipeline reserves and production - annual; underground storage semimonthiv, monthly (annual; imports and exports annual; pipeline curtailments - quarterly, semisnnual; construction costs - annual; pipeline listing - annual; wholesale gas prices - annual; interstate gas prices - quarterly; reserve dedications monthly; field, buyer, seller and small producer listings - annual. The code listings and reserve dedication reports are issued as ADP printouts; all other reports are issued as news releases and/or formal reports. Availability: With the exception of the internal monthly and semimontily underground storage reports and two internal annual reports on pipeline construction costs, output is available to the public through the Commission's Office of Public Information. Information pertaining to producer reserves and cost data is considered confidential pending Commistien and/or court action

Agency Context: Barcou of Natural Gas; 825 North Capitol St., Washington, DC 20426 (202) 275-4410.

414

Natural Gas Regulations System (Producer Rate).

OMB Fueding Title Codel Salution and Expenses / 26-0100-1-305, Comparational Raisvones. Hour Committee on Appropriations: Tuble Works Subcommittee, Hour Committee on Interior and Insuits: Affaing: Hour Committee on Interstet and Foreign Comments: Smeet Committee on Appropriations: Public Works Subcommittee, Scotte Committee on Commerce, Science, and Transportision; Scotte Committee on Densry and Natural Resource.

Date Sess Reference: S-03100-015

Subject Terms: Energy Prices; Government Regulation; Interstate Commonor; Natural Gas Prices.

Purpose: Producer rate regulation is required by the Natural Class Act to assure this natural gas in mod is initestate commerce at rates which are just and reasonable. The major functions of this system sec to review exploration, developmental, and production costs as sociated with the production and sale of natural gas, recommend reas required to explore for stand develop the natural gas reserves essential to the needs of the country, and review all producer rate filings made with the Commission. This system is maintained to provide the Commission and its staff with the information processary to determine just and reasonable rates for the sale of natural east Input: The data are derived primarily from producer rate change filings, rate schedules, industry sucstionnaires, Commission orders and opinions, and data available from the Natural Gas Operating Information File. Content: This file contains records of rates applied for by producers for interstate gas sales to pipelines, a copy of each contract upder which producer sales are made also correspondence and other related producer information. These rate filings are made number to Commission estimates establishing antioexcide rates or as a result of contractual requirements or State actions affection rates being charged. Output: Opinions which establish just and reasonable rates are preduced approximately every two years. Hardcony is available. Producer rate change filings are reported on summary reports on a continuous basis. Hanformy reports only are available Availability: National Rate Opinions are available to public in hardnonv form. Producer rate changes are reported on continuous reports for internal distribution only.

Agency Contact: Bureau of Natural Gas; 825 North Capitol St., Washington, DC 20420; (202) 275-4579.

415

Natural Gas Regulation System (Producer Certificate).

Pattern Schrödingen und Schrödingen und Schrödingen (2004) Fording Thild/Code: Salisford and Expresses /26-0100-01-305. Caragerestened Relevances. Have Committee on Appropriations: Public Works Stationauticer, Have Committee on Interior and Interior and Interior suitar Affairs; Have Committee on Interior and Foreign Commerce; Smele Committee on Appropriations: Public Works Subcommittee, State Committee on Commerce, Science, and Transporticity. State Committee on Recry and Natural Resources.

Data Dasa Reference: S-03300-016

Subject Tarmas Government Regulation; Interstate Commerce, Licensee; Natural Gas Fipelines; Natural Gas Sales; Pipelines.

Parapere: Under the Natural Gas Act, producers are required to obtain certificate authorization to sell gas in interstate commerce and to obtain abandonment authorization for the constion of any sale of pax in interstate commerce. Certificate applications and abandonmost applications are filed by producers pursuant to the Commissign's Rules and Regulations as set forth in the Code of Federal Regulations, Title 18, Chapter I. The purpose of the file is to provide the Commission staff with adocuate information concerning the amount of gas available, terms and conditions of gas sales, and location of any dedicated to the interstate pipeline system. Insut: The data necessary to support this system include applications for certificates of public convenience and necessity and eas contracts filed by producers. Commission orders and opinions, and data available from the Natural Gas Operating Information File. Context: The files opetain a record of all producer certificate applications and contracts which sovern the terms and conditions of the sales. Each certificate provides the applicant's name; description of facilities; pipeline locations, length, dismeter, daily capacity; any compressor, sas-on-line, dehydration or purification plant; storage facilities; gas supply; and gas contract. Each gas contract contains the name of the purchaser, point of delivery, contract volume, price at time of filing, date and term of contract, and special conditions. Output: A semiannual summary of preducer certificate filings of various types is prepared by the Bareau of Natural Gas for the Commission's information in hardcopy form with no computer capability. This summary identifies large producer certificate applications, small producer contracts filed by pipelines, applications for limited term certificates and for entional certificates and notifications of 60-day emergency sales by docket number or file number, seller, buyer, field, county, State, price, term, and volume. Availability: The summary of producer certificate filings is publicly available upon request, but it is primarily an internal report prepared for the information of the Commission.

Agancy Contect: Bureau of Natural Gas, 525 North Capitol SL, Washington, DC 20426; (202) 275-4524.

416

Natural Gas Reputation System (Pipeline Role).

Finite voit accentence of the second seco

Data Bare Reference: S-03300-017

Subject Terms: Energy Prices; Government Regulation; Natural Gas Pipelines; Natural Gas Prices; Pipeline Rates; Pipelines.

Purpose: Pipeline rate regulation is required by the Natural Gas Act to assure that nineline rates are just and reasonable. As part of its burden of proof in support of a proposed rate increase, a pipeline company is required to submit cost and financial data including an overall cost of service which is the starting point in determining just and reasonable rates. It represents the revenue requirements that will enable a company to recovar its cost and optrate profitably in order to attract capital for sustained service to its customers. Formal hearings are usually held on these rate increase proposals. Rulemaking proceedings are also instituted to set standards and new policies and to provide necessary information for effective regulating actions. Input: The data necessary to support this system are derived primarily from pipeline rate change filings, rate schedules, tariffs, reports and investigations instatuted as a result of rate change filings, and Commission orders and opinions. Data from the Natural Gas Operating Information File are also used. Context: The Information File contains a historical record of each individual regulated pipeline's just and reasonable rates, cost of service, plant in service, depreciation rate, gas purchase cost and volume sold, volume of gas sold and rate price, balance sheet data, income statements, transmission line data, gas storage data, a finance payment data, capital structures, and allowed rate of return. Output: Opinions which establish just and reasonable rates are issued after the Commission has decided individual pipeline formai rate cases. Haedcopy is available. Availabliity: Pipeline rate opinions are available to the public.

Agency Contact: Bureau of Natural Gas: 825 North Capitol St. Washington, DC 20426; (202) 275-4371.

417

Natural Gas Regulation Systems (Plaeline Certificate).

ONB Invelleg Telle Costs' Saliniza and Expension / 26-0100-01-305. Congressional Relevances Hour Committee on Appropriations: Public Works Subcommittee, House Committee on Interior and Insuite Affairs, Houre Committee on Internate and Partiaja Commerces, Sense Committee on Appropriations: Public Works Subcommittee, Sinste Committee on Commerce, Science, and Transportation; Sense Committee on Berery and Natural Resources.

Data Base Reference: S-03300-018

Subject Termu Opvernment Regulation; Licourse; Natural Gas Pipelines; Pipelines.

Puspear: Under accidon 3 and 4 of the Natural Got Act, over 120 priordiational analysis. The comparise matt turbule application of the second second accident and the second second accident and a second accident accident accident accident accident accident accident facilities. These justaledisions for accident accident accident accident facilities. These justaledisions for accident accident accident accident facilities. These justaledisions for accident accident accident placed applications accounts in a context to provide the second by language accegate secretics, plant accident form the certificate application filed by the pipeline company, from Commission orders and coiniens, and from data available from the Natural Gas Operating Information File. Supplemental data are frequently requested by staff from the applicant as required. Content: This file consists of all contificate applications applied for by Natural Gas Companies. Each application for a certificate by a jurisdictional papeline company is accompanied by specific data on the project as to the financing, engineering, economics, gas supply, market, State and local authorization, location of facilities, flow diagrams, environmental impact, cost of facilities, construction, maintenance and operation schedules, the impact the projects will have on the entire system's operation, gas volumes to be transported, anticipated startup dates, and other relevant company data. Data on natural gas contailment plans are also a nart of this information source. Output: The ultimate output is the Certificate of Public Convenience and Necessity issued by the Commission. Reports at the staff level include internal memos recommending action, exhibits, testimony, and environmental impact statements. Availability: The Cartificate of Public Convenience and Necessity, Exhibits, Testimony, Environmental Impact Statements, and correspondence to and from the applicant are all available to the public through the FPC, Office of Public Information. Staff memos recommending action are restricted to internal use.

Aganey Contact: Bureau of Natural Gas, 825 North Capitol St., Washington, DC 20426; (202) 275-4496.

418

FPC Library

OMB Funding Titla/Codes Salaries and Expenses / 26-0100-0-1-305. Congruenties and Network Netw

Data Base Reference: S-02200-019

Soldert Terms: Energy; Information Services, Laborates, Public Utilities

Perpete: The Federal Power Commission Library maintains materials which relate to certain phases of FPC fiscal and budgetary programs; current and retrospective files misting to congressional reports, hearings, and rublic laws for the regulatory areneics, as well as soveral executive departments such as Aariculture, Interior, and Energy Research and Development Administration. Juput: Materials are derived from intental and external sources. Content: The content includes an extensive collection of publications and materials related to general management and accounting functions; the United States budget dating back to 1921; statistics of electric and gas, public utilities, including finance and management; Moody's Public Utilities and Moody's Industrials back to 1913; Standard and Poor's services on companies, stocks and bands; Ebasco's analyses of public utility financing; Commerce Clearing House services on Federal and State taxation; publications containing data on finance and banking which influence the national economy and hence the use of electric power and natural gas; Federal Fower Commission electric rates arranged by State, dating from 1939; and American Gas Association rate service. The remaining bulk of the collection deals with the legal and technical materials directly involved in public utility regulation. including publications on energy, environment, fuels, aconomics, secounting, and law. Output: Normal library products are produced. Availability: The library is available for FPC staff use only.

Aganey Contact: Office of Administrative Operations; 825 North Capitol St., Washington, DC 20426; (202) 275-43(3)

419

Natural Ges Distribution Model.

OMB Funding Title/Code: Salaries and Exponses / 26-0100-0-1-305. Congressional Relavance: House Committee on: Appropriations: Public Works Subcommittee; House Committee and Foreign Commerce; House Committee on Appropriations: Public Review Commerce; Sever Committee on Appropriations: Public Works Subcommittee; Senate Committee on Commerce, Science, and Transcortation.

Data Base Reference: 5-03300-020

Subject Terms: Forecasting, Mathematical Models, Natural Gas Demand; Natural Gas Distribution, Natural Gas Pipelines; Pipelines, Similation

Purpose: The model is a mathematical program which determines the optimum distribution of natural gas from producing areas to markets through the natural gas pipeline network human input data requirements for the model are the demand for natural gas by State, sector (residential, commercial, industrial, electric utility), and year, and natural gas production (both interstate and intrastate) by FPC producing area. Demand data, by soctor, are provided by the Foderal Energy Administration, Production data are derived from data propared by the Future Requirements Committee and published in Future Gas Consumption of the United States. Valume 6. December 1975. Content: The model computes the optimum allocation of natural gas to sectors within each State, using goal-oriented techsiques of mathematical neogramming. Optimum allocations are computed in accord with user supplied factors indicating the relative importance of satisfying demand in each of the four sectors in the States. The model determines an optional allocation from a set of potential solutions which are constrained by such factors as pipeline capacity, gas production, and maximum allowable deviation from historical patterns of any distribution. Output: Major hardcopy reports consist of predicted flow of gas from surply areas to market areas on a pipeline-by-pipeline basis and predicted allocations of natural gas to residential, commercial, industrial, and electric utility sectors on a State-by-State basis. As the need for analysis of natural and distribution arises, the model is run and reports are produced. Availability: Sample output from past analyses is available from the Agency contact.

Agancy Contoct: Pipeline Certificate and Curtalment Division; 825 North Capitol St., Washington, DC 20426; (202) 275-4515.

TENNESSEE VALLEY AUTHORITY

420

Bookkeeping System.

OMS Funding Titls/Cods: Tennessee Valley Authority Fund / 64-4110-0-3-301.

Congressional Relavances Houre Committee on Appropriations: Public Works Subcommittee, House Committee on Public Works and Transportation; Storaer Committee on Appropriations: Public Works Subcommittee; Storaer Committee on Environment and Public Works.

Date Rose References 5-05700-001

Subject Terms: Accounting; Budget Information Systems; Management Information Systems; Resource Allocation.

Purpose The system accomplicate accounting data and prepriora instrum report for accounting and for management to pain, nonline, and control suppositions. Append All Instrum angulations provide approximate control in the system provide instruments that in another that the system and the system provide instruments that in another with one should be appendix abused and income statements of excluded, financial assessment on the system provide instrument of account financial instrument, explanations and financial statement of an activation of the system provide instrument and the system and instrument of accounting and an activate final information. Instrument accounting the system provide instrument of accounting financial instrument of accounting and accounting and accounting and financial instrument of accounting and accounting and accounting the system accounting and accounting and accounting and accounting accounting in prepared to for accounting accounting accounting and accounting in prepared to contrast accounting a prepared to for accounting acco

Agency Contact: Division of Finance; Tennessee Valley Authority, Knozville, TN; (615) 632-3291.

ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION

421

Francial Information System, 383; 384; 385.

OMB Funding Title/Code: Operating Expenses / 89-0100-0-1-053; Operating Expenses / 89-0100-0-1-251; Operating Expenses / 89-0100-0-1-305.

Comparisonel Balweener Horau Committee on Apticulatory Hons Committee on Appropriations: Institute Subcommittee, Hons Committee on Appropriations: Institute Subcommittee, Hons Committee on Appropriations: Institute Subcommittee, Source Committee on Appropriations: Institute Work Subcommittees Source Committee on Appropriations: Institute Source Committees on Particutes on Annual Sarrices, Source Committees One Records on Annual Sarrices, Source Committees One Records on Annual Sarrices, Source Committees One Records on Appropriations: Institute, Source Committees One Records on Appropriations: Institutes, Source Committees One Records on Appropriate Same Committees on Records, Source Committees One Records on Appropriate Same Committees on Records, Source Committees One Records on Appropriate Same Committees on Records, Source Committees One Records on Appropriate Same Committees on Records, Source Committees One Records on Appropriate Same Committees on Records, Source Committees One Records on Appropriate Committees on Records, Source Committees One Records, Source Committees One Records, Source Committees One Records, Source Committees on Records, Source Committees, Source Com

Data Base Reference: S-05000-001

Solijeet Termu Accounting Budget Information Systems; Financial Management.

Parpose: The system is the primary financial information collection and dissemination mechanism for the Agency. Input: The input includes congressional actions, OMB budget decisions, field financial reports, field and headquarters financial plans, program financial status information, and manpower management reports (contractor). Context: The financial management system is connected of two primary modules-the accounting module and the budgeting module. The accounting and budgeting modules are interfaced to provide comparisons of actual costs with financial plan estimates. This provides a tool for measuring performance by month. The interface enables much of the past year actual data to be recast into the new budget structure by machine. Data in these modules are organized in a programmatic rather than object class or special analysis structure. The accounting module is designed to collect and disseminate cost and obligation data at varying levels by budget and renorting classification, reporting organization, contractor, and location. The budgeting module is essentially made up of two major submodulesbudget formulation and budget execution. Budget execution is built around the Pinancial Plan, a document which provides guidance and cellings on costs and obligations at various reporting levels. Each office or organization which receives an allotment also receives a financial plan to provide guidance in expending the allotment. Since BRDA receives two appropriations (one for operating expenses and one for plant and capital equipment), each program is actually controlled by two financial plans. Both financial plans are computergenerated and contain only current year data. The financial plan is organized by office, organization, and program. The operating expenses financial plan is maintained on a cost and obligations basis, while the plant and capital equipment financial plan is on an obligational basis. Budget formulation is primarily a manual system. Bodget schedules show a 3-year spread (past year actuals, current year estimates, and budget year estimates) for comparison purposes. Since the budget structure changes somewhat from year to year, nast year notuals and the current year estimates are recest into the new hudget year structure for comparability. Special analyses of the budget data are also prepared as are certain crosscuta which emphasize computers, isboratories, and personnel. Output: The principal output conslats of Budget Status Tables, Financial Plans (Cost and Obligation) Manpower Reports (Contractor), Obligation and Cost Accounting, Reports (Actual Va. Planned), and Treasury Schedules and Reports. Availability: Output is generally for Internal use only.

Agancy Contoct: Office of the Controller; 20 Massachusetts Ave. NW, Room C-207, Washington, DC 20545; (202) 353-5002.

422

National Solar Heating and Cooling Information Center Energy (305),

OMB Trading Thir/Golm Operating Rapenes (\$5-0100-0-1-30). Comparisond Balvenesi: Haue Committee on Appropriated Interier Subcommittee, Haue Committee on Appropriated Innology: Sonth Committee on Appropriated and Technology: Sonth Committee on Appropriated Subcommittes; Sontee Committee on Appropriated Subcommittes; Sontee Committee on Appropriated Subcommitser; Sontee Committee on Appropriated Subcommitser; Sontee Committee on Energy and Naturel Re-Sontres.

Data Bare Reference: S-05000-002

Subject Teense Cooling Systems, Heating Systems; Information Conters; Solar Cooling; Solar Heating.

Purpose: The National Solar Heating and Cooling Information Center was established by the Department of Housing and Urban Development in cooperation with the Energy Research and Develcoment Administration, under provisions of Public I aw 93,409, to bein make everyone aware of the practical feasibility of solar everyy and to encourse the public and industry to consider solar energy systems for houses and commercial buildings. Junet: Information and data (e.g., reports, studios, proposals, grants) from HUD and ERDA laboratories and contractors unmersition conmitants and other contractors from both the public and private sector are sources of innut. Context: Information is, or will be, available on such subjoots as thermal energy for buildings, flat plate solar collectors, thermal storage systems, solar water heating, building heating systems, combined heating/cooling systems, collectors and component materials, focusing collectors, economic analysis of solar systems, and photovoltais power seneration. Other tonical areas are electric power generation, methano production, agricultural applications, thermal radiation properties, and solar system models. The Conterone provide locations of solar homes and offices for inspection names of architects who specialize in solar design, builders with solar experience, polar equipment manufacturers, detailed extentific or technical findings, and comprehensive listings of books and periodicals on apecific subjects. Output: Based on existing and new information from the ERDA Oak Ridge Technical Information Center. the NSH and CIC maintains or is developing a voluminous listing of state-of-the-art reports, periodicals, books, bayers' anides, and a directory of solar energy uses and mers. Literature searches will be performed on request. The Center provides exhibits and the names of organizations that will furnish topical speakers, information on grant applications (e.g., eligibility and timing for application submission) is available. The Center is establishing a centralized data bank of information. Availability: All data that are provided directly by the Center are projassified, nonproprietary, and available to Government agencies, business and industry, and the general public without cost. Information provided by other sources available to the Center may have to be purchased.

Agency Contoch Division of Solar Energy; 20 Massachusetts Ave. NW, Washington, DC 20545; (202) 376-9482.

423

ERDA Headquarters Technical Library.

OMB Funding Titla/Code: Operating Expenses / 89-0100-0-1-053; Operating Expenses / 89-0100-0-1-251; Operating Expenses / 89-0100-0-1-305.

Congruentest Relevance: House Committee on Aprioitegre House Committee on Appropriations: Public West Stokenmittee House Committee on Appropriations: Public West Stokenmittee Generation and Committee and Appropriations: Public West Stokenmittee Stoken Committee on Appropriations: Interior Stakenmittee; Same Committee on Appropriations: Interior Stakenmittee Same Committee on Appropriations: Interior Stakenmittee Same Committee on Appropriations: Neuro Committee on Comsenter Committee on Appropriations: Neuro Committee on Comsenter Committee on Appropriations: Neuro Committee on Emergy of Neuro House Committee on Emergy Approx Committee on Appropriations: Neuro Committee on Emergy Approx Appropriate Committee on Emergy

Date Base Reference: 5-06000-003

Subject Terms: Energy; Information Services, Libearies.

Paraster The ERDA Technical Library serves ERDA Headquar-Hers personnel by providing the scientific and technical Interature needed to support ERDA's mission. The library maintains an extensive collection of books, reports, public documents, and aerials covering all energy-related areas. The library is open to the public, but materials must be used in the library or borrowed through established Interlibrary Loan procedures. Inpat: The input includes MARC (Machine, Readable Catalogies Arenications Reckars): Hoderstifted Reports Listing program, Headquarters Report Index -2444; KWIC-KWOC (Key Word In Context - Key Word Ont-of Context); and Serial Information Control System (SICS). Contest: The computerind system contains all booky cataloard by the BRDA Library since. mid-1974, and includes selected subject areas of L.C. MARC tapes, which are undated monthly. The number of all full size no leasified reports held by ERDA Library are reported and updated every six works. The titles and number of ERDA Headquarters reports are updated monthly (Word Processing) The KWOC Index of the titles of ERDA Headmasters separts is unlated monthly. All mbrerintions handled by the ERDA Library are updated monthly. Output The output consists of: 1) Author-Title Book Catalog, Subject Book Catalog, KWIC Index to Book Catalog, Shelf List to Book Catalog Selected Distemination of Information output from MARC taper-2) Unclassified Reports List; 3) ERDA 76-41; 4) ERDA Hendquarters Reports: and 5) Accessions and Holdings List, KWIC Index, Routing slips, Serial Espiration Report, Routing List by Journal, Publisher List. Routing List arranged by recipient, X Cards, Cisim Letters, and Serial Espiration Letter. All output is hardcopy. Availa-Nilly: Reports are available through NTIS. Other output is for internal use.

Agency Contract Division of Administrative Services; 20 Massachusetts Ave. NW., Washington, DC 20545; (202) 376-9015.

424

Energy Films Distribution, 75.

OMB Funding Title/Code: Operating Expenses / 89-0100-0-1-053; Operating Expenses / 89-0100-0-1-251; Operating Expenses / 89-0100-0-1-305.

Comparison Indexame Hoar Committee on Apricultury Howr Committee on Appropriations: Index Subcommittee, Howr Committee on Appropriations: Index Subcommittee, Howr Committee on Appropriations: Index Subcommittee, Index Committee on Appropriations: Interior Subcommittee, Same Committee on Appropriations: Interior Subcommittee, Same Committee on Appropriations: Interior Subcommittee, Same Committee on Appropriations: Interior Subcomting, Same Committee on Appropriations: Interior Subcom-Committee on Economyco, Steiner, and Timmerson, Same Committee Committee on Economyco, Steiner, and Timmerson, Same Committee Committee on Economyco, Steiner, and Timmerson, Same Comton and Same Committee on Appropriate Committee on Economyco, Steiner, and Timmerson, Same Committee on Committee on Economyco, Steiner, and Timmerson, Same Committee on Commerce, Steiner, and Timmerson, Same Committee on Economyco, Steiner, and Timmerson, Same Committee on Economyco, Steiner, and Timmerson, Same Committee on Economyco, Steiner, and Timmerson, Same Committee on Committee on Economyco, Steiner, and Same Committee on Economyco, Steiner, and Timmerson, Same Committee on Economyco, Steiner, and Same Committee on Economyco, Same Committee on Economy

Date Sone Reference: S-05000-004

Subject Terms: Audiovisual Aids: Energy: Films.

Pwrese: The purpose of the Energy Film Distribution System (EFD) is to provide teachers, broadcasters and program chairmen of schools, tolevision stations, civic clubs, government and industrial organizations with a means to obtain educational and informational films as well as technical and professional films on energy and energy-related subjects. The EFD is an on-line film booking system which books written or oral requests for motion picture films up to a year in advance and generates appropriate forms and correspondence to confirm booking, daily listings of films to be malled, mailing labels, a record of the return of films, and subsequent availability for dispatch, and statistics. Information recorded includes that identified on the enclosed form TI-234. Insut: The Input is schools, TV stations, civic clubs, Government, and industrial organizations. Content: This is an on-line film booking system which records the availability of educational films on energy and energy-related subnots. The system senerates forms to confirm bookings, labels, a record of the return of films, and a daily listing of films to be malled.

Output: The system generates hardcopy correspondence forms to communicate with film requestors. It also produces status reports on the oroutation of films. The frequency is daily. Antibility: The films and related system youldust ner available to the public.

Agancy Contact: Technical Information Center, Oak Ridge, TN 37830; (615) 483-8611.

425

Liqued Metal Fast Breeder Researe Plant Personation Information Systems 40

Constraining Hite/Code Opensing Expressor (89-0100-0-1-302). Compensional Boltworsen: Russer Committee on Appropriations: Interity Subcommittee; Hasse Committee on Appropriations: Public World: Subcommittee; Masse Committee on Science and Tethnology, Soure Committee on Appropriations: Interfor Subcommeter; Jesson Committee on Appropriations: Public Works Subcommittee; Sande Committee on Renergy and Natural Resources.

Date Same Reference: S-06000-005

Subject Teense Bronder Reactors; Liquid Metal Past Beteder Reactors, Reactors.

Parenter. The system provides compliation of LMFBR reactor systems characteristics for use in making management decisions. Data input and retrieval are via an on-line computer system (System 2000) Juna: The input is from the Division of Reactor Development and Demonstration, contractors, international agencies, and the Assistant Administrator for International Affairs. Content: This system is part of the overall LMFBR program of developing a broad tochnological and engineering base for the LMFBR with extensive utility and industrial involvement so that upon this base a capacity can be established for a competitive commercial breeder industry as a means for motting national energy needs in the 1990's and beyond. One of the program's overall objectives is to achieve public acceptance of the LMPBR Power Generation System by demonstrating its inherent strategy, oconomic benefit, and environmental acceptabili ity. Guput: Output from the system is generally in hardcopy form via System 2000. The frequency of output is on an as-required basis. Availability: Output is generally restricted to internal use.

Agancy Contoct: Division of Reactor Development and Demenstration; 9700 S. Cass Ave., Argenne, IL 60439; (312) 739-7711.

426

Nuclear Material Management Plan, 41

OMB huoding thirl/Gain Operating Expenses / 88-0100-0-1-000 Comparisone Balawawani, Branz Committee on Appropriations interior Subcommittee, Howas Committee on Appropriations Public Worls Subcommittee, Howas Committee on Science and Technology; Soure Committee on Appropriations: Interior Subcommiter; Sawas Committee on Appropriations: Public Worlds Subcommittee, Sours Committee on Energy and Natural Resources.

Onto Sasa Reference: 5-06000-005

Subject Terms: Inventories; Noticer Materials.

Puppore: The system's puppes is the investment and research margement of accelera materiani, largers. The input is the sourcetion effects the contractions. Science: The angle france documents in control of Notes's the contraction of the system on control of Notes's thread is documents in Project Number, Project Thick and Material Tayre. This information is returned by any second on a mean thesis. Only one compare is generated anomaly and repretoring the system of the system of the system on an ensume their document of the system of the related to interrupt and means. An anomaly source spacement of the system of the system of the system of the related to interrupt and means. Aganey Contact: Waste, Production and Reprocessing; 20 Massachusetts Ave. NW, Washington, DC 20545; (301) 353-4128.

ø

Reactor Information File, 289,

CMB Funding Tim/Cosin Operating Expertsey (18-0100-0-1-030) Comparational Deleveration Host Committee on Appropriations: Finance Needs Subnormalities; Houre Committee on Appropriations: Follow Invest Subnormalities; Houre Committee on Appropriations: Follow Integration Committee on Appropriations: Public Works Subnormalities; Sante Committee on Energy and Natural Resources.

Data Base Reference: \$-06000-007

Subject Terres: Electric Utilities; Nuclear Powerplants; Nuclear Reactors; Powerplants; Reactors.

Parpose: The Reactor Information File offits and processes parametric, cost, and achedular data received from electric utilities and other sources on civilian nuclear powerplant units. Computer printonts from RIF are used for preparation of ERDA publications ER-DA-125, ERDA-30 and TID-8200, as well as reports, analyses, and information responses to other ERDA components, Congress, other agencies, industry, and the public. Input: The input comes from electric utilities having nuclear plants ordered or under construction and the Nuclear Regulatory Commission Offices of Public Affairs and Industry Relations. Content: The system interfaces with other systems which maintain information (including statistics) in the following areas with respect to central station nuclear powerplants Number of plants announced, on order, under construction, operable, or terminated; schedules; capacity rating; costs; and operational history. Ouput: The output frequency is monthly, quarterly, or as required. Products of the system are sent to ERDA organizations. other agencies, industry and the public via Publications ERDA 125 and 30; and the Congress (Joint Committee on Atomic Recrev and other energy-related committees) receives "update" which is a roport on success power. Assilebility: These are publicly available through ERDA distribution.

Agancy Contact: Nuclear Energy Assessments; 20 Messachusetts Ave. NW, Washington, DC 20545; (301) 353-3745.

63

National Plan for Entrys Research, Development, and Demonstration; Oracting Energy Chucks for the Payare, 123.

OMB Funding This/Code: Operating Expenses / 89-0100-0-1-305, Comparational Relavances: Boare Committee on Appropriations: Intenties Subcommittee; Hoare Committee on Appropriations: Public Works Subcommittee; Moare Committee on Schoon and Teoboology; Smare Committee on Appropriations: Public works Subcommittee; Sonie Committee on Interform and Intuity. Affin: Experimentations: Public Works Subcommittee; Sonie Committee on Interform and Intuity. Affin:

Outo Bose Reference: 5-05000-008

Sabjeet Terms: Budget Information Systems; Boargy Planning; Boargy Policy; Energy Programs, Research and Development.

Appener The National Pine is possible of year() in two volumests, Volume 1 presents the neary two hooding years, for sevent, Derechment, and Demonstration (RD and D) priorities, independent and the sevent sevent sevent sevent sevent sevent sevent with the sevent sevent sevent sevent sevent sevent sevent which are responsed in whole or in party but Porkers IG concernment. It happlicate possible grammers that, discriming a sevent sevent sevent sevent sevent sevents are sevent sevent sevent sevent sevent sevent sevents are sevent sevent sevent the primary larget or the place sevent from the RDA. Program other forward against the sevent sevent sevents in the SIGN sevents of the Pointerval against and sevent sevents are sevent as the other Pointer al against area the presention with sevents and the other pointer al against area the presention sevents are substances. The sevent sevent sevent against area the presention is the standard services of the Pointer al against area the presention is the standard services.

Pedarol Information Sources and Systems

packing, have not programs for the Foreira Government. "About disks for a standard comparison, packing a standard strate of its subdisks. In a standard comparison, packing a standard strategy in a standard comparison of the comparison of the standard strategy in a standard comparison of the comparison of the standard strategy in a standard comparison of the comparison of the standard strategy in a standard strategy and the strategy in a strategy in a strategy of the comparison of the strategy in a strategy in a strategy of the comparison of the strategy in a strategy in a strategy of the comparison of the strategy in a strategy in a strategy of the comparison of the strategy in a strategy in a strategy of the strategy and the strategy in a strategy in a strategy in a strategy fraction of the strategy in a strategy in a strategy of the strategy and the strategy in a strategy in a strategy in a strategy fraction of the strategy in a strategy in a strategy in a strategy fraction of the strategy in a strategy in a strategy in a strategy fraction of the strategy in a strategy in a strategy in a strategy of the strategy in a strategy fraction of the strategy in a strategy in a

Agancy Contoct: Pinnning, Analysis, and Evaluation; 20 Massachusetts Ave. NW, Washington, DC 20545; (202) 376-4354.

429

Counied Energy System - Economic Models, 465,

Construction production and an anticonstruction production and an antitrates Subcommittees. Howe Committee on Appropriations Intrates Subcommittees. How Committee on Subcommitteer Subcommittees. How Committee on Subcommitteer Subcommittees. How Committee on Subcommiteer, Saware Committee on Appropriations: Interior Subcommiteer, Saware Committee on Appropriations: Publics Warks Subcommittees. Associated Committee on Subcommittee Warks Subcommittees. Appropriations: Publics Warks Subcommittee.

Date Base Reference: 5-06000-009

Subject Terms: Econometric Models, Economic Import; Bacryy Policy; Baergy Supplier, Environmental Assessment; Ferensting, Sum Hilen

Parager The integrated energy system-spenomic, models are used to evaluate the long run economic, energy, and environmental effects of various combinations of Geometry policies. These include policies relating to research, development, and demonstration of new entray supply, conversion, and end-use conservation technologies both in current and future time periods. Inand. The integrated pars economic portions of the system rely on largely historical data to project according lavels and inter-industry activity through the year 2000. Energy and technological persentators arise from exogenous forecasts of individual technologies and resources. Data Resources, Inc., Cambridge, MA, shares provision of coongenic data with the Brookhaven National Laboratory National Center for the Analysis of Energy Systems. The latter provides energy and technology data. Content: The integrated system consists of four models. The Data Resources Incorrected (DRI) Macrorect tomic Growth Model is used to specify the annual values for the Gross National Product (GNP) and its component parts as well as relative prices and shares for espital and labor. The prowth model is used to estimate the nominal and real values of consumption, investment, government spending, and net experts over time through the year 2000, given exogenously specified population and productivity estimates, and aggrogate production and utility functions. The secend model is the Hudson-Jorgenson nine-sector econometric model of interindustry transactions. This model is based on a system of accounts for the private domestic sector of the U.S. economy, including final demand, primary input, and inter-industry transactions in current and constant prices. The U.S. economy is divided into nine industry groups, including five groups within the energy sector - coal mining, crude petroleum and natural gas, petroleum refining, electric utilities, and ass utilities. The model also includes three ostegories of arimary input - capital services, labor services, and imports - and four categories of final demand - consumption, investment, povernment purchases, and exports. Through this model, the process of production for energy and nanenergy products can be traced from the purchase of primary input through all stages of intermediate processing to deliveries to final demand. Outsut Model optout,

Energy Digest SEPTEMBER 1977

hardcopy, is used as input to inspir analysis such as the annual antional plan for energy reserved, development, and demonstration, toposel reports, and apocial analysis for BRDA units. The model couplat it result the final pocasts is an analysis, a weikeNilgy Ansiyzed model origin it publicly available through the Office of the Ansitzent Administrator, Planning, Analysis, and Barbachion, BRDA or the Center for the Antiyais of Energy Systems, Brookhaven Niteinal Laboratory.

Agancy Contact: Planning, Analysis, and Evaluation; 20 Massachusetts Ave. NW, Washington, DC 20545; (202) 376-4364.

43

Contracts Information System (CIS), 93.

OMB Funding Title/Code: Operating Expenses / 85-0100-0-1-053; Operating Expenses / 89-0103-0-1-251; Operating Expenses / 89-0100-0-1-305.

Congressional Relevences, Mours Committee on Appropriations: Interior Stocommittee, *Hears* Committee on Appropriations: Public Works Subcommittee, *Hears* Committee on Appro-Committee on Schnee and Technology, Smern Committee on Appropriations: Institute Schnee Committee, and Appropriations: Public Works Subcommittee, Sense Committee on Armot Gervices, Gener Committee on Commerce, Science, and Tenseportation, Senser Committee on Commerce, Science, and Tenseportation, Senser Committee on Commerce, Science, and Tenseportation, Senser Committee on Story and Netras Resources.

Date Base Reference: 5-06000-010

Subject Teenes: Contract Missignment; Contractors; Contracts; Government Proparement; Proparement.

Payment (1) CIS is a centralized data base which collects and processes conti -t and procurement data. Asso: The input is derived from a sudquarters divisions administering contracts and/or interagency agreements, all field offices and energy research conters, and ERDA cost-type prime contractors when total procurement actions under the contract are estimated at \$250,000 or more. Consence Information is used for management purposes, for informational reports, and for furnishing procurement information required by congressional committees, the Otneral Accounting Office, General Services Administration, Setall Business Administration, Renegotistion Beard, Office of Federal Contract Complianet, Denartment of Labor, and the peoposed Government-wide Federal Procurement Data System (FPDS). Output: Output relates to contracts and contractors and is generated in response to queries by the Conareas, private industry, and other Government agencies. Nine reports pertaining to procurement are updated monthly. A yeador file is also contained in the system. Assilobility Output is generally available to the public through second distribution.

Aganey Contact: Division of Procurement; 20 Massachusetts Ave. NW, Washington, DC 20545; (301) 353-3316.

431

A Computer Code for Conceptual Cast Balanatus of Shorm Electric Power Plants (Cancept), 465.

ONB Transing THM/Cash Operating Bayesnes / 18-0100-0-1-030. Compensional Mathemater, Mana Committee on Appropriational Interies Subcommittee, Haure Committee on Appropriational Mathematics, Mana Committee on Appropriational Lateries Subcommittee, Subcommittee on Appropriational Lateries Subcommittee, Subcommittee on Appropriational Lateries Subcommittee, Subcommittee on Benergy and Natural Resources.

Data Base Reference: 3-06000-012

Subject Terms: Construction Costs; Nuclear Powerplants; Powerplants; Thermal Powerplants,

Paramer: The CONCEPT computer package was developed to provide conceptual capital cost estimates for nuclear and fossilfueled nowembants. Cost estimates can be made as a function of plant type, sup, location, and date of operation. The output includes a detailed breakdown of the escinate into direct and indirect cost surrondure to the accounting system described in the cost model. Cost models based on 1973 technology are currently provided in CON-CEPT IV for first and second unt PWRS, BWRS, HTORs, and coal, oil, and gas-fired plants PWR, BWR, and coal cost models are currenity being undated Anaut: The mean is derived from Union Carbide General Offices - Oak Ridge, LAEA, external utilities, and muscellanoous sources. Content: The system collects seminimusli date on construction jabor and material costs relating to powerplants. Some of the materials factored in are concrete ply-form, three types of structural steel, reinforcing steel, jumber, and land. One of the major system files contains data on cost models representing 48 different types of plants Gatpar. The system generates daily output in two major areas. One area represents the development and testing of various methods and models; the other one is associated with providing special assistance for construction estimates. Amilability: Details on the system (including the computer programs) are systable to the public through the Argonne National Code Center A reference manual (ERDA-108) is also available through NTIS.

Agency Contexts Office of Nuclear Energy Assetsments, 20 Massachusetts Ave NW, Washington, DC 20545; (301) 353-3748.

432

U.S. Uranum Resources and Supply

ONB Funding Thir/Code Opening Expense / 89-0100-0-1-030. Comparison Relevances: Hours Committee on Appropriations: Fultee torior Shoormaintee, Houre Committee on Appropriations: Fultee Works Shoormaintee, Hours Committee on Science and Technology, Saver Committee on Appropriations: Fuldee Works Subcommittee, Saver Committee on Energy and Nateral Resources.

Data Base Reference: S-06000-013

Subject Terran Nucleur Energy; Power Resources, Unseem

Parases: The purpose of this data acquisition system is to sather information on domestic scanium are reserves and resources, economics, and production capability as a basis for Agency and industry planning for nuclear energy and alternative system development. Data are gathered and published in a wide ranging variety of utanium raw materials related subjects, including efforts of Government and Government contractors and the private sector Input: Information is developed by gathering the results of industry activities in organium exploration and mining. The basic data are used to prepare estimates of U.S. transum reserves and resources. Analysis of the data by ERDA personnel results in projections of uranism supply. Statistics on exploration and mining activity and future plans are also provided by industry. ERDA is generating additional information under a National Uranium Resource Evaluation program which is a systematic reconnaissance survey using various methods to identify areas favorable for the occurrence of uranium leading to preparetion of national uranium resource appraisal. Context: Information ovvera all aspects of unanium raw materials area for the United States. including Alsska. Data are released routinely through press releases and papers and annually through publication of "Statistical Data of the Uranium Industry" and a Uranium Industry Seminar held in Grand Junction, CO. Similar data are aathered and reported meanding foreign uranium resources and production capability. Output; The principal output is the report GJO-100, "Statiatical Data of the Uranium industry," published annually, Reports on apocific areas and topics are published as work is completed. Augilability The data and reports are available to the public from ERDA.

Agency Contact: Division of Uranium Resources and Enrichment; 20 Massachusetts Ave. NW, Washington, DC 20545; (301)

153-4303

433

Information Center for Energy Safety (ICES).

Data Base Reference: S-05000-014

Subject Terms: Entrypy, Information Services; Occupational Health and Safety, Power Resources; Safety.

Pursue: The Information Center for Forray Safety (ICES) was established at Oak Ridge National Laboratory by the Energy Research and Development Administration as a mational center for collecting, storing, evaluating, and disseminating safety information essential to the development and use of several nonnuclear forms of coverage. Insuit: Energy safety information is collected by information specialists who scan all available sources-literature, meetings, personal contacts among experts in the field, screen out those of pertinence, separate the sources into [CES's subject areas, and abstract and enter into the ICBS storage and retrieval system. Contents Energy safety is related to the following energy technologies: solarthe energy as derived directly from the sun's radiance: ceal-the merey obtained directly from the burning of coal; coal conversion and utilization-the energy and source chemicals obtained by converyon of coal, oil, pay, and shale inchoology-the energy obtained by conversion of these fuels; magnetohydrodynamics (MHD)-the enerev obtained hy direct conversion of foel to electricity; thermonuclear-the coalineoring, motalluratical, and physical science requirements associated with plasma containment; acothermal-the energy obtained from geothermal sources: wind-the energy obtained from wind sources: electrical energy systems-the storage, transmission, and use of electrical energy: transportation and storage-containment, storage, and transfer of energy other than electricity; and advanced systems-the energy obtained from advanced sources. Ourpar. The cuteut consists of answers to technical inquirees, state-ofart reviews, periodic dissemination of information, monthly material in National Safety Council R and D Newsletter, bibliographics and abstracts, and consultation with staff mombors. Availability Since ICES is currently under development, screes to the information is lemited to Federal againstee, their contractors, and selected industrial concerns.

Apency Contexts Environment and Safety; 20 Massachusetts Ave. NW, Washington, DC 20545; (201) 353-3562.

434

Socio-Economic Eurironnental Demographic Information System (SEE-DIS).

OMS Funding Title/Code Operading Expenses / 89-0100-0-1-302, Comparisonal Behavenes: How Committee on Appropriations intrefor Stheoremittees; Hows Committee on Spence and Techwerks Stheoremitte; Hows Committee on Spence and Technology; Neare Committee on Appropriations: Intelfor Scheoremitter; Sowar Committee on Appropriations: Intelfor Scheoremitter; Sowar Committee on Appropriations: Public Works Subcommittee; Senser Committee on Benergy and Natural Reservers.

Data Base Reference: S-06000-015

Soljest Terms: Demography: Energy Folicy: Environmental Assessment; Personning: Population Statistics: Socioeconterne Industries.

Parmate: The thirpase of the system is threefold, disitiving census, tract maps, creating a geographic data base, and mapping this information. Energy, production devisionmakers and planners are stoplied with the capability to manipulate, analyze, display, and map a broad range of socioeconomic, environmental, and demographic data Jupur: The input is derived from Bureau of Census population and housing data, Bureau of Labor data, San Francisco Bay area data on industrial water use in California, and business, transportation, agriculture, health, environmental, and natural resources data. Congent: SEEDIS has the following capabilities. It produces high-quality, low-cost maps for graphical display of statistical data by geographical and political area and provides an error free geographical data base for spatial analysis applications. The SIRAP project within SEEDIS provides a central repository for regional and national data bases used by the Army Corps of Engineers in cost-benefit analyses and socio-economic-environmental impact planning for their civil works construction projects. A series of 12 basic domographic profiles containing information worful to planners and researchers in human resources programs was compiled from the 1970 census data and is used for projecting manpower profiles. A specialized data base limited to data items pertaining to the San Francisco Bay metropotitan area is being developed for use by the Association of Bay Area Governments. In collaboration with the Lawrence Berkeley Laboratory Energy and Environment Division, a multireelonal input-output model is being developed which utilizes linear programming techniques to analyze U.S. production, employment, and energy use. A project to edit, sort, interpolate, and display the California water use by industries is being completed. The Employment Projections Project has enabled the Bureau of Labor Statistics and State employment security agancies to project employment by occupation and industry to 1980 for States and metropolitan areas with populations of 250,000 and over. The Regional Management Information System and the Computerized Chorting for Employment Benchmark Adjustments projects involve data from several Denartment of Labor automated reporting systems, such as the Employment Security Automated Reporting System (ESARS) and the Employment Security-202 (unemployment insurance) reporting system. Oursat: The output includes maps, bar charts, pie charts, analyses, population studies, manuower studies, input-output studies, California and Bay Area studies, and employment studies. Availabilthe These are available to Federal agencies and their contractors and State and local government agencies.

Agency Contacts Environment and Sainty; 20 Massachusetts Ave. NW, Washington, DC 20545; (301) 353-3562.

435

Stripmung and Land Reclamation Information System.

OMB Freeding This/Code Operating Expenses (\$5-0100-0-1-03: Crageworked Ratevones: How Committee on Appropriatence interior's Secondarius (How Committee on Appropriatence This committee (How Committee on Appropriatence This relays; Saure Committee on Appropriations: Philos Works Subcommittee on Appropriations: Philos Works Subcommittee, Senate Committee on Energy and Natural Resources.

Data Base Reference: S-06000-016

Subject Terms: Coal Mining; Environmental Assessment; Land Reclamation; Strip Mining.

Papear: The system's propes is to ratke the couldies of the problems of their originations and is often management by the commistion of a data base is and implementation of a data system. For its article and a state of the system of the could be applied on the property of the system of the system of the system of the and rectanation permits of could mining States and publications extra could be applied by the system of the system of the system or do and the system of the system of the system of the property of the system of region; muse topography, hydrology, and overhandese characteristics, and premit cost effectiveness studies of alternative reclamations techalogues, poletes; and programs. The initial complains is on Illinois, Indisan, Ohina, and Kentucky. Dayun: Queries are answered, and sanjises and studies are program. Andibabily: This information is available to Federal agencies and their contractors and State and local tasencies.

Aganey Control Environment and Safety; 20 Massachusetts Ave NW, Washington, DC 20545; (301) 353-3562.

436

Foral Energy Update

OMB Funding Thir/Code: Operating Expense / 89-0100-0-1-030. Comparison Behaviores: Hand Committee on Appropriations: Interior Soboaramiltee, Houre Committee on Appropriations: Public Works Soboaramiltee, Moure Committee on Appropriations: Public Works Soboaramiltee, Moure Comparison Interior Soboaramitrey, Seare Committee on Appropriations: Public Works Soboaramiltee: Seaas Committee on Energy and Natural Restrates.

Date Base Reference: 3-06000-017

Subject Terms: Energy: Forst Fucts, information Services, Research and Development.

Parpase: Fossil Energy Update is a comprehensive current awareness announcement of publications covering fossil energy research, development, and domonstration issued by ERDA and its contractors. Area: Fossil Energy Update also contains references to reports, journal articles, conference proceedings, patents, and monographs issued by other U.S. Government agencies, research and industrial institutions, and by foreign countries. Content: The subject scope of Possil Energy Update includes coal and coal produots, petroleum, natural gas, oil shales and tar sands, electric power engineering, environmental aspects, power transmission and distribution, and MHD Generators. Owner: An abstract journal is published monthly in hardcopy form. Each issue of Possil Energy Update centains the subject, personal author, corporate source, and report number indexes. Availability: Fossil Energy Update is available to the public on a subscription basis from the National Tochnical Information Service, 5285 Port Royal Road, Springfield, VA 22161. The annual subscription cost is \$27.50. The proce covers 12 monthly issues and an anomal camulative index.

Agency Contexts: Office of Technical Information; 20 Massachusetts Ave. NW, Washington, DC 20545; (202) 353-4035.

43

Solar Energy Update

OMB Funding Titls/Code: Operating Expenses / 89-0100-0-1-305.

Congressional Rolewases. Hour Committee on Appropriations: Interior Subcommittee, Hour Committee on Appropriations Public Werks Subcommittee, Hour Committee on Solvroe and Technology: Sewar Committee on Appropriations: Interior Sub-committee; Source Committee on Appropriations: Interior Subcommittee; Steake Committee on Energy and Natural Resources.

Data Base Reference: S-06000-018

Subject Terms: Abstracts; Bibliographics; Evergy Research; Photovolkale Conversion; Power Researces, Research and Development; Solar Energy; Tidal Power; Wind Energy.

Paysness Solar Energy Update in a comprehensive current twateness announcement of policitations courting solar energy research, development, and demonstration issued by BRDA and its contractors. Japare Solite Energy Update lalos contains references to reports, journil articles, conference proceedings, patents, and imongraphs issued by other U.S. Government agencies, research and industrial anamous and y incare controls. Control, The whipe is topol of the farge typicas obtained are ency conversion, photometatic conversion, photometatic conversion, which is the second photometatic conversion, and the second photometatic conversion, photometatic conversion, which we are set of the second photometatic conversion of the second photometatic and or collectors and conversions, which we are built as each other second photometatic conversions of the second photometatic conversion and and photometatic conversions of the conversion of the second photometatic conversion of the three second photometatic conversions of the second photometatic from the built conversion of the second photometatic conversion from the built conversion of the second photometatic conversion from the built conversion of the second photometatic conversion from the built conversion of the second photometatic conversion from the built conversion of the second photometatic conversion from the built conversion of the second photometatic conversion of the photometatic conversion of the second photometatic conversion of the photometatic conversion of the second photometatic conversion

Againey Context: Office of Technical Information; 20 Massachusetta Ave. NW, Washington, DC 20545; (301) 353-4035.

438

ERDA Energy Research Abstracts (ERA).

OMB Frending Titus/Centric Operating Expranse / 83-0100-0.3-303. Comparational Riskmannia / Janos Camiltos on Appropriationa Intraina Steconardinese, House Committee on Appropriational Intraina Steconardinese, House Committee on Software and Techsology, Seater Committee on Appropriational Fueline Works Steconardise, Sossie Committee on Appropriational Fueline Works Subcontrastes, Sossie Committee on Energy and Natural Reservces

Date Base Reference: 5-06000-019

Subject Teams: Abstracts, Energy Retratch, Information Sproces, Nuclear Energy: Research and Development

Parpose: ERDA Energy Research Abstracts (ERA) provides abstracting and indexing coverage of nonnuclear and nuclear energy scientific reports, patents, journal articles, conference papers, theses, and monographs originated by ERDA and its laboratories, overay centers, and contractors. Annut: ERA is the prime vehicle for timely announcement, in comprehensive and organized fashion, of the availability of sublications reporting the results of ERDA's research. development, and demonstration programs Dissemination of this information is necessary for the fulfillment of ERDA's mission and is authorized by law (Public Law 93-438, sec. 107c). Content: ERA also covers certain other technical information on nuclear fuel cycle technology, foreign resetor and fusion technology, as well as documents received from foreign governments with which ERDA has agreements for technical cooperation. Output: An abstract journal is published semimonthly in hardcopy form. Each issue of ERA contains subject, personal author, corporate author, and report number indexes The latter indicate the availability of each report Semeannal and annual indexes are provided. Amilability: ERA is available to the public on a subscription basis from the Superintend. ent of Documents, U.S. Government Printing Office, Washington, DC 20402. ERA is available on an exchange basis to universities, research instructions, industrial firms, and publishers of scientific information. Federal, State, and municipal agencies concerned with energy development, conservation, and usage may obtain ERA free of charge,

Agency Centerh Office of Technical Information; 20 Massachusetts Ave. NW, Washington, DC 20545; (201) 353-4035.

439

Technical Information Center (TIC).

OMB Funding Titls/Code: Operating Express / Ep-0109-0-1-105. Comparational Relevance. House Committee on Appropriations: Interior Subcommittee, House Committee on Appropriations: Public Works Subcommittee on Appropriations: Interior Stocommittee; Sense Committee on Appropriations: Interior Stocommit-Stocommittee on Appropriations: Interior Stocommittee on Approprisee on Appropriations: Inte Subcommittee; Senate Committee on Energy and Natural Re-

Data Base Reference: S-06000-020

Subject Termsu Energy Research; Information Centers; Information Buchange; Information Services; Technology Transfer

Purpose: The Center (TIC) in Oak Ridge, TN, is the collection, processing, and distribution point for scientific and technical information generated by the ERDA programs. One of the primary objectives of TIC is to insure that ERDA-sponsored research is reported promptly and that reports are distributed within ERDA and to its contractors. When suitable, reports are also made available to the general public. Scientists, linguists, edutors, craftsmon, educators, writers, engineers, librarians, computer specialista, and information specialists maintain TIC's strong contralleed technical information activity Insut: Authority for public availability of ERDA's research and development is derived from the Energy Reorgenization Act of 1974. In pursuing its mandate, TIC locates and acquires energy-related scientific and technical information nationally and internationally through bilatoral agreements with foreign countries. special exchange programs, and organization-to-organization agreements. Content: Selected information items attained through the above means become part of ERDA's science information archives and data base and are retrievable on both a current and retrospective basis. The TIC bases are divided according to broad subject diaciplines and are available for use in several ways-batch searching (RE-SPONSA); on-line interactive searching (RECON); as separate tapes available to others for local application; as tapes representing the U.S. input to the International Nuclear Information System of the IAEA; and for bibliography preparation. Nearly \$50,000 eitations are subject indexed and machine-searchable, corresponding to ERDA's programmatic interests. Output: The TIC publishes the ERDA Energy Research Abstracts, Energy Abstracts for Policy Analysis, Solar Energy Update, Fossil Update, and various biblingraphies. TIC also develops and maintains the ERDA data bases, the RESPONSA batch search system, and the RECON on-line search system. TIC maintains a unique publishing capability for preparing, printing, and announcing ERDA prestige publications and any publication of special interest to the ERDA program. The Center provides technical reference pervices and document and film requests services and carries out an educational services program devoted to aiding students and teachers in their studies of energy. Anailability: Films and educational materials are available from the ERDA Technical Information Center, P. O. Box 62, Oak Ridge, TN 37830, Other publications are for sale through the U.S. Government Printing Office, Washington, DC 20402, or the National Tochnical Information Service, Springfield, VA 22161.

Agency Contect: Office of Technical Information; 20 Massachusetts Ave. NW, Washington, DC 20545; (301) 353-4035.

440

RECON (R.Emote CONtole).

OMB Function Title/Cade: Operating Exposed / 87-0106-0-1-000. Comparisonal Advances. / Assoc Ammittee on Appropriations: Interior Subcommittee; Howas Committee on Appropriations: Pable Works Subcommittee; Howas Committee on Appropriations: Interior Subcommitinology; Secure Committee on Appropriations: Interior Subcommitter of Subcommittee on Appropriations: Public. Works Subcommittee; Sweet Committee on Energy and Natural Resources.

Data Base Reference: S-06000-021

Subject Terms: Energy, Information Storage and Retrieval; Power Resources; Research and Development.

Purpose: RECON is the BRDA computerized on-line, interactive storage and retrieval system. It is designed to permit soleratists, librarizes, and information specialists located at various sites aerosas the country direct and fast soccess to bibliographic records stored in haren files which cover a broad range of energy-related tonics. Input: The data bases available on RECON include those made available through preparation agreement with other Federal agencies and companies and the ERDA Energy Data Base (EDB), with TIC providing the total input and evaluation. Content: The subject scope of the nearly \$50,000 citations includes nuclear solution, power reactor liconsing and regulation, energy policy, onal technology, solar energy, geothermal energy, oil shale, magnetohyrodynamics, conservation, electric power engineering, direct energy conversion, thermonuclear power, environment and safety, and basic research and development. The indexes available for on-line searching are author, corporate author, country of publication, journal code, patent country, subject categories, and controlled subject descriptors RESPONSA, a variation of the RECON system, allows searching in the batch mode, Output: The principal output of RECON is the capability for computer terminal searching The output of the ERDA Energy Data Base includes ERDA Energy Rosearch Abstracts, Energy Abstracts for Policy Analysis, Solar Energy Update, Fessil Update, and various bibliographics. Annilability: RECON is available to ERDA, ERDA contractors, and other Government secucies with which ERDA has agreements.

Againey Contacts Office of Technical Information; 20 Massachusetts Ave. NW, Washington, DC 20545; (301) 353-4035.

41)

Easingy Abstracts for Policy Analysis (EAPA).

OME Fending Title/Code * Operating Expense / 19-0100-0-1-00. Comparisoned Nativeness House Committee on Appropriations: Inteder Subsommittee, House Committee on Appropriations: Phile Works Subcommittee, House Committee on Steines and Technology, Source Committee on Appropriations: Phile: Werks Subcommittee, Sever Committee on Energy and Natural Resources.

Data Base Reference: S-06000-022

Subject Terms: Abstracts, Economics: Energy, Econgy Policy; Econgy Research; Forecasting; Information Services; Power Resources.

Paraese: EAPA is a bibliographic data base sponsored by the Eneray Research and Development Administration, EAPA provides abstracting and indexing coverage of selected publicly evailable nontechnical literature contributing to energy-related analysis and evaluation. The thrust is toward policy issues, economics, supply and demand, and forecasting of major and patential energy sources. The audience includes scientists, policymakers, planners, and economists. Input: BAPA covers pertinent material from congressional committee prints: ERDA and other Federal agency and department reports: news reports: regional and State government documents: books: and conference proceedings and papers. In general, only documents considered to have significant reference value and published within the past two years are included. Content Subject areas covered by EAPA are policy; conservation; research and development studies; aconomics; supply and demand; forecasting; systems studies; and environmental effects. Specific fields of energy sources, including fossil foels, applear fuel, hydrogen and synthetic foels, and hydroelectric power: unconventional energy sources, including solar, wind, geothermal, tidal, and waste products; energy conversion and storage: and energy consumption, including residential, commercial, Industrial, agricultural, and transportation sectors, and intersectional studies; and efficient energy utilization in these sectors. Output EAPA is produced menthly in hardcopy form. It is machine-readable on RECON as a subset of ERDA Energy Data Base. Availability EAPA is available to the public on a subscription basis from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The annual subscription rate is \$20 for domestic subscriburs. An annual subscription includes 12 issues plus an annual Index.

Energy Digest SEPTEMBER 1977

Aganey Centeet: Office of Technical Information; 20 Massachusetts Ave. NW, Washington, DC 20545; (301) 353-4035.

442

Technical Books and Monographs

OMB Funding Title/Code: Operating Exposure / 89-010/0-1-1-30-Comparatureal Relativeness. How Committee on Appropriations: Interfor Stateostmittee; Hoare Committee on Appropriations: Interdor Stateostmittee, Hoare Committee on School and Techsology; Sowie Committee on Appropriations: Fusion Subcostnaitee; Sawie Committee on Appropriations: Publice Works Subcostmittee; Mark Committee on Energy and Natural Resources.

Data Base Reference: S-06000-023

Subject Terms: Ethiographics; Catalogs; Eperary; Information: Services.

Payese: This catalog is a bibliography of books and monographs sponsored by the Energy Research and Development Administration. Input: The books and monographs are grouped under 13 subject categories. Information for each book, published or in press, includes title: outhor and author affiliation: publisher and publication date: a physical description of the book consisting of page and illustration count: Liteary of Congress card number: International Standard Book Number; a brief descriptive statement concerning the book; and a list or a description of the contents for more recent books. Recent symposia published as ERDA project reports appear in a special section at the end of each subject category. Additional ERDA cublications are described at the end of the cutalog. Commit: The content is a bibliographic listing of books and monographs published by ERDA. Output: The output is an annual hardcony of ERDAsponsored books and monographs. Aveilability. It is free on request to ERDA Technical Information Center, P. O. Box 62, Oak Ridge, TN 17830

Agency Contects Office of Technical Information; 2D Massachusetta Ave. NW, Washington, DC 20545; (301) 353-4035.

443

Center for Every Studies (CES).

ONE branking Thu/Conic Operating Expenses (19-0100-0-1305, Comparational Networks, Hone Committee on Appropriations Interior Stocommittee, House Committee on Appropriations Thurson Works Stocommittee, House Committee on Stoces and Techmology: Source Committee on Appropriations Public Works Subcommittee, Source Committee on Stoces and Expension to Stoces and State State State State State State Stoces and State St

Data Base Reference: S-05000-028

Sobject Terms: Energy Reservch; Information Services; Power Resources.

Proper The Center for Emergy Studies (CES) was exclusible to provide a central listed for energy reverse the downstroal articlycies and provides i fromatic local priorities for the exclusions and streams the energy of the energy reverse the stream of the energy of the energy of the energy response. To state, magnetic market the adapted in the following neural Construmer, coargo conservation, adapted in the following neural Construmer, coargo conservation, enteric is preven, and entries the energy of the energy of the prevention of the energy response of the energy of the energy of preventions, Availability for problem into coarses, and the energy Martines A Availa, Availability for problem into a coarse of the energy Marterses A Availa, Availability for problem into a coarse of the energy Marterses Availa, Availability for problem into a coarse of the energy Marterses Availa, Availability for problem into a coarse of the energy Marterses Availa, Availability for problem into a coarse of the energy Marterses Availa, Availability for problem into a coarse of the energy Marterses Availa, Availability for problem into a coarse of the energy Marterses Availa, Availability for problem into a coarse of the energy Marterses Availa, Availability for problem into a coarse of the energy Marterses Availa, Availability for problem into a coarse of the energy Marterses Availa, Availability for problem into a coarse of the energy Mar-

Agency Cantests Center for Energy Studies; The University of Texas at Austin, Austin, TX 78712; (512) 471-3434.

444

Controlled Fusion Atomic Data Center. OMB Funding Tills/Code: Containe Extenses / 85-0160-0-1-305.

Congressional Relativences: Hour Committee on Appropriations: Interior Subcommittee, Hour Committee on Appropriations: Public Works Subcommittee, Hour Committee on Science and Technology; Source Committee on Appropriations: Public Works Subcommittee, Sense Committee on Energy and Natural Resources.

Data Base Reference: 3-06003-025

Solijeet Terma Energy, Nuclear Energy, Nuclear Passon, Particles; Thurmonuclear Energy

Proyne The Cancindic Pation Data Carer was enablished in 1964 and is sponsore by the Earsey Ensemble and Development Administrations, Division of Margarez Pation Barry, Mayer The Produces data on collisions involving clargest and strategy and the wild passes and surfaces which are dressly entered to constrained wild passes and surfaces which are dressly entered to constrained the manufactor areases. Note: The Caretor patients and these collisions processes. Availability: Governments and these constrained particular of the Caretor. Data compliations are offen paidter and the constraint of the Caretor Data compliations are offen paidter and the constraint of the constraint on the constraint of the const

Agamsy Contort: Controlled Fusion Data Center; Oak Ridge National Laboratory; P.O. Box X, Oak Ridge, TN 37830; (615) 483-5611.

445

Cruiscolity Data Center

OMB Funding Title/Code: Operating Expenses / \$9-0100-0-1-305

Congressional Relevances (Base Committee on Appropriations Theterior Subcommittee, House Committee on Appropriations Public Works Subcommittee, House Committee on States and Teshnology; Source Committee on Appropriations: Public Works Subcommitteen Appropriations: Public Works Subcommitteen, Seaw Committee on Energy and Netural Resources).

Bata Base Reference: S-05000-030

Solgert Terrer Criteality; Fassonable Materiala, Information Content, Naclear Barrgy, Nuoles: Meteralis, Safety; Transportation of Hexaedone Safsiances

Purpore The Criticality Data Cratter is sponsored by the Snerger Secrets and Deroperture Additionation, Driving of Millary Vetto Criticality subsy, Japan The Japan Lindon of Millary vetto criticality subsy, Japan The Japan Lindon from Toski The content of criticality attributes and the strength strength strength transformed and the strength strength strength strength strength transformed and the strength strength strength strength strength transformed and the strength strength strength strength strength transformed strength stre

Agency Context: Criticality Data Center; Oak Ridge National Laboratory, P. O. Box X, Oak Ridge, TN 37830; (615) 483-5611.

446

Ecological Sciences Information Center (ESIC).

OMB Funding Title/Code: Operating Expenses / \$9-0100-0-1-305; Operating Expenses / \$9-0100-0-1-251.

Congressional Relevance: House Committee on Appropriations: Interior Subcommittee; House Committee on Appropriatents: Public Works Subcommittee, House Committee on Science and Technology; Sauar Committee on Appropriations: Interior Subcommittee; Savate Committee on Appropriations: Public Works Subcommittee; Name Committee on Commerce, Steener, and Transnotations. Sovie: Committee on therary and Abatal Resources.

Data Base Reference: S-06000-031

Subject Tennus, Ecology, Electric Powerplants; Estrainment, Environmental Assessment, Possil Puels, Nuclear Energy; Thermal Pollution; Transmissies.

Purpose: Established in 1968, ESIC provides information support the province of the service method in the service of the service o clear and fossil energy. The sources and interactions of radionuclides in the environment, bethways to man, and effects in man and experimental animals are of concern information support is provided to the National Uranium Resource Evaluation Project with a computersearchable file of annotated references to the geochemistry and prophysics of uranium. Input: The geology of selected areas within the United States is used in commeter menouse procedures. The Nevada Annied Boology Information Center compiles the data base on the Revisonmental Aspects of the Transpranies and provides information to the Nevada Applied Ecology Guoup. References and abstrates originally assembled on the basis for a connerbrosive review of radionuclides in soil and uptake by plants are computer-starchable Transport of unarrown and therium in the environment as related to the thonum fuel cycle, are the subjects of a data base, annotated billiography and critical ranker. Contrast Computerized Information files are compiled on the environmental impact of epsting electric generating stations. Subjects related to cooling include effects of temperature, chlorine, and other chemicals, impingement, and entrainment. A predictive fish population model on the effocts of power station operations is supported by a data base on the life history. hiplory, permittion dynamics, and tropic interactions of striped bass. Other data bases are built by the Center for the ORNI, Brairmonntal Sciences Division. The journal "Ecology" was searched from 1956 through 1976 for activity pertaining to ecosystem applysis. either subprocesses or total systems, and an annotated and indexed data hase is being compiled. Information support is provided to the assessment of cycling of carbon in the biosphere with an extensively indcased and annotated data base. Output: Reviews and/or bibliographies on thermal effects of squatic systems, effects of entrainment, and environmental aspects of the transurances are published on a regular basis. A number of specialized bibliographies and literature overviews are also published. In-denth literature searches using compaterized data bases and extensive library facilities are provided. Availability: Bibliographics are available from NTIS. Resources and services in the Center are available to all individuals.

Aganty Contoti: Ecological Sciences Information Center; Information Center Complex/Information Division, Oak Ridge National Laboratory, P. O. Box X, Oak Ridge, TN 37830; (615) 453-4511.

447

Energy Research, Development, and Demonstration Inventory.

OMB Fending This/coin: Optraing Exprars (\$9-0100-01-307, Congruinos Bitwesser, Hause Committee on Appropriations: Intrains Subcommittee, House Committee on Appropriations: Public Works Subcommittee, House Committee on Science and Technology; Senser Committee on Appropriations: Interior Subcommitteg; Swarer Committee on Appropriations: Public Works Subcommittee, Suster Committee on Easergy and Natural Reservers.

Data Base Reference: 5-05000-032

Subject Terms: Energy Research; Information Services, Inventories, Research and Development.

Purpose: The Energy Research, Development, and Demonstration inventory was established in 1971 and is spreasured by the Ronzy Research and Development Administration. The Investory is a computer and file containing descriptions of current engraph related research done or sponsored in the Liouted States. The score of interest includes all energy sources, fossil facts success, and up, conventional: electric power generation, transmission, distribution, and stomer: energy uses and conservation-bratise and coolies. lighting, accilances, industrial processes, transportation, agriculture; oconomic and least senerty; and environmental and health official. In relation to these subjects, information on exploration, muting, procpasing, reactioned and rearray studies, and basic or applied research and orgineering development is of interest. Input in from books monographs conerts wereasts and data in the subject area Content: The descriptions of energy research projects are arranged by subject categories and consist of (when available) tatle, research institution and city, sponsor, principal investigator(s), project duration, funding level, description of rosearch, number of technical personnel assigned to the protect, type of research (basic, applied, and/or developmental), and publications. Keywords and secondary subject categories, when needed, are also added to the project deacrintions. Various statistical summary tables on funding arc included in the published version of the Inventory. Statistical studies of the measurement of coverage and the representativeness of the Inventory projects are conducted and summarized in the published Inventory. Output: The system prepares inventories of descriptions of energy-related research and development progress. The third and latest issue (in five volumes), dated January 1976, is entitled Inventory of Bnorgy Research and Development: 1973-1975, and is availabie from the Superintendent of Decuments, U.S. Government Printing Office, Washington, DC 20402. Applicabilitie: The avatem answers inquiries concerning information in this computer information base. Limited computer searches are performed as time allows.

Agancy Contact: Information Center Complex/Information Division; Oak Ridge National Laboratory, Bidg. 3603, P. O. Box X, Oak Ridge, TN 37830; (615) 483-8611.

448

Environmental Information Analysis Center (EIAC). OMB Funding Title/Codes Operating Expenses / 89-0100-0-1-305; Operating Expenses / 89-0100-0-1-251.

Congenauised Relavonce: Houre Committee on Appropriations: Interior Subcommittee; Houre Committee on Appropriations: Public Works Subcommittee; Houre Committee on Subcommittee; Sassir Committee on Appropriations: Interlor Subcommittee; Sassir Committee on Appropriations: Public Works Subcommittee; Sassir Committee on Commetee, Science, and Transporticities; Sanser Committee on Reary and Naturel Resources

Dato Bose Reference: S-06000-033

Subject Tormo: Environmental Health; Information Centers; Information Sovices; Nockar Powerplants; Philosikam; Powerplant Shing, Radiation Safety; Tribum.

Propuse: Sponsored by the BRDA Division of Biomedial and Divisions and Research, the Bratile Columbus Laboratorie Braivariant and the Brain State and State and State and State profile and any attemutiliting the resources of the BAC. Apart. The priorit is monography. In proceedings of the State and State state. Consense: Originally, the BIAC physical is impersion to led name state. Consense: Originally, the BIAC physical is impersioned and state. The State and State and State and State and State and Arabica and State State and State and State and State and Interfacing and State State and State and State and State and Interfacing and State State and State and State and State and Interfacing and State State and State tem has received anyie emplotive, with special costate/entrols ji/wm to intimin, plenoim, and noisenge powychast dising. The operturbance scope has entimate to expand in anyopot of the ERDA program. For the divergence of a set was more complexitower to these sets of temperturbance of the set of the intervention of the set of the set of the set of the set of the sets and the set of the set of the set of the set of the set intervention of the set of the set of the set of the set of the sets and the set of the sets and the set of the sets and the set of the sets and the set of the sets of the set of the sets of the set o

Agancy Context: Environmental Information Analysis Center; Battello-Columbus Laboratories; Columbus, OH 43201; (614) 424-6424.

449

Environmental Resource Center (ERC)

OMB Funding Title/Code Operating Expenses / 85-010-0-1-251. Comparatorent Betworksense Haves Committee on Appropriations Interiesr Stateommittee; Houre Committee on Appropriations: Public Work's Sobtemmittee; Houre Committee on Selecce and Technology; Soare Committee on Appropriations: Interior Subcommitee; Javaev Committee on Appropriations: Public Works Subcommittee; Soate Committee on Commerce, Selence, and Transportation.

Data Base Reference: S-05000-035

Subject Tenne Energy Research, Environmental Assessment; Environmental Health; Hazardess Substances; Information Services.

Purpose: Sponsored by the Energy Research and Development Administration and the National Science Foundation, Research Applied to National Needs, the Center was established in 1975. The Environmental Resource Center (ERC), Boological and Bayironmental Sciences Section of the Information Center Complex. Oak Ridge National Laboratory, extends the expertise and facilities of the section to diverse user arouts on both long-range projects and abort term or specialized study contracts. Insur: By adenting a matrix management system based on information system functions and subjust specialization. BRC has assembled as its major resource a professtonal staff of scientists with practical operating experience in monograph preparation, abstracting, tabular data extraction. and computerized information retrieval and manipulation. The ability to quickly mobilize an environmental task force geared to specific tasks is accompanied by strong environmental data bases and extensive information collections ranging from commercially available inrecscale disciplinary collections such as Biological Abstracts to in-house collections on environmental health and control data of emerging energy technologies. Contest: Carabilities range breadly across the environmental damage and control spectrum from energy technologits to hazardous substances. Outsut: Many renducts and services are available through ERC. These include information overview monographs, abstract journals, novaletters, topical reviews, annotated hibliographies management information systems, tabular data extraction, data base creation, directory and distribution services, and maintenance of environmental data resource file in hardcopy, microfiche, and magnetic tape form. The ERC also provides response and referral services including in-depth literature services. using computerized data bases and extensive library facilities: answoring of specific environmental questions posed by the azientific community, Government agencies, industry, and others; the publication of bibliographies as natural byproducts of the response service; and technical survey activities. Anailability: Some services are available to everyone; other are available only to funding agencies.

Agoncy Context: Environmental Resource Center; Information Center Complex/information Division, Oak Ridge National Laboratory, P. O. Bex X. Oak Ridge, TN 37530: (613) 483,8611

450

Lagud Metal Fati Breaks Reasts Faci-Cladding Information Center (LMF8R).

OMB Funding Title/Code: Operating Expenses / 89-0100-0-1-305, Plans and Capital Equipment / 89-0103-0-1-305

Congressional Relevances Heur Committee on Appropriations Interior Subcommittee, Hour Committee on Appropriations Public Works Subcommittee, Maace Committee on Science and Technology, Seath Committee on Appropriatones Interior Subcommittee, Seater Committee on Appropriatones Interior Subcommittee, Seater Committee on Energy and Natural Retornees.

Data gese Reference: S-06000 038

Sobject Terms: Classing Engineering, Fait Plan Test Facilities, Facia, Informition Services, Liquid Metal First Breefer Researces, Nuclear Facia

Payson: The LMFER Fuel-Cludding Information Center provides nuclear engineers and scientists with a broad base of engineering data on LMFBR nuclear fasts and cledding materials. It manutins a central data source of materials performance from inradiation tosts on experimental mixed-oxide fixel elements and FFTF (Fast Flux Test Facility) driver feel elements Japan: In-house experimentation and data collected from mixide sources comprise puttem input. Conver The system includes feels and cladding materials data from LMFBR mixed-oxide faci element development programs. Data for all experimental mixed-oxide fuel elements inradiated in the EBR-II (Experimental Breeder Reacter) are maintained on magnetic tape and sucrofilm files. These files are cladding fabrication, cladding properties, irradiation history, postirradiation examination results, and breached cladding files. The Center has data on the manufacturing of driver fuel elements for the FFTF, the fabrication of experimental mixed-oaude fuel elements, and postiradiation examination of materials. Qumur: The avatem provider traceability to original raw materials with data for each manor fabrication step, answers inquiries, and provides data comeilations. Data are available directly from the computer in the form of tables, plotted curves, and simple statistical analysis. Summaries are propared for experimental feel elements irradiated in the EBR-II. The files enetain data only for U.S. technology. Anailability: Persons so designated by the ERDA Division of Reactor Development and Demonstration have access to the Center

Agency Contest LMFBR Fuel-Cladding Information Center, Westinghouse Hanford Company; Hanford Engineering Development Laboratory, P.O. Box 1970, Richland, WA 99352; (309) 941-3184.

451

National Geathermal Information Resource (GRID)

OM8 Funding Title/Codes Operating Expenses / 89-0108-0-1-305, Operating Expenses / 89-0108-0-1-251.

Congenielond Reisennee: House Committee on Appropriations Interro Subcommittee, House Committee on Appropriatoms: Public Works Subcommittee, House Committee on Sciences and Technology, Senate Committee on Appropriatoms: Interior Subcommitues; Sonie Committee on Appropriatoms: Interior Subcommittee Subcommittee, Subcommittee on Commerce, Science, and Transporticion; Sonae Committee on Commerce, Science, and Transporticion; Sonae Committee on Energy and Nazeral Reserves.

Dato Base Reference: S-05000-039

Subject Terms: Environmental Assessment; Geothermal Energy, Information Services; Librarios,

Purpore: Essibilised in 1974, the Center provides information as for major categories of prothermal biasions and technology-objects chemistry, responsion, williamion, environmental efficiency-objects utorioal considerations. Just The imput is looks, monographs, journals, reports, and data in the subject area. Consten: The Center provides information on physical dominary, exploration, domains environmental effects, and insultational condetensions. Onput chapta looking subjectations of Completensional Informational Information of the Information of Conditional InformaAgency Context: National Goothermal Information Resource; Lawrence Berkeley Laboratory, University of California, Berkeley, CA 94720; (415) 843-2740.

452

Nesada Applied Ecology Information Center.

OMB Feeding Hith/Gela Operating Expense / 13-0100-01-130, Congressional Statwares: Hears Committee on Appropriations: Interior Subcommittee, Hears Committee on Appropriations: Park Werks Subcommittee, Hears Committee on Seites and Technology; Smar Committee on Appropriations: Public Works Subcommittee, Seater Committee on Energy and Natural Ro-Stores.

Date Base Reference: S-05000-041

Solger Terme Environmental Protection, Hazardom Substances; Nuclear Testing, Plotoniam; Radiation Safety, Radoactive Contembration; Radicactive Wate Disposal; Transprinter, Urantum.

Parpose: The Center is sponsored by the National Applied Boology Group, U.S. ERDA, Novada Operations Office. The Center was established in 1971 and concerned itself with the biornvironmental data for the nuclear testing site, primarily, plutonium, scanium, and other transuranics, and special combasis on distribute tion and movement. Awat: Data are collected from organizations and publications throughout the world Content: Studies of animals. plants, soil, resuspension, man, caposure, logal and political aspects including regulations and standards for environmental levels, safety, shipping and storage waste disperal, analysis of plutomum and other environmental materials, movement, and the fate of radionuclides in the environment "with emphasis on availability to man" are included. Governmental data on radiation dose, environmental conditions of chemical isotope, organisms used in research, route of intake, roentgon distribution, particle size, and effects are controlled. Other transuranies in the environment due to nuclear testing serve as interface in the scientific and industrial community for the collected compilation and analysis of data relevant to the scope of the Center. The Center provides information on topics within its scope. Output: Upon request, Center personnel consult with members of the public, industry, and the scientific community. Availability: Specialized bibliographic services, including verified abstract, reprint copies, and data, are available free to ERDA, its contractors, and to others with a professional interest on a cost recovery of information exchange basis. Documents relating to platonium and other transumnics and their ecological and radiobiological sugnificance are available.

Agency Contect: Director; Nevada Applied Ecology Information Center; Nevada Operations Office, P. O. Box 14100, Las Vegas, NV 89114; (702) 734-3194.

Appendix 4 Major Energy Legislation

To facilitate reference from the index entries, the laws listed in this appendix have been assigned consecutive accession numbers

456

Federal Water Power Act (P.L. 66-280, 41 Stat. 1063)

This act established the Federal Power Commission (FPC). The original commissioners were from the Executive Branch and had regulatory authority over certain water power projects in 1930, FPC became an independent regulatory agonety.

457

Notinal Gas Act (P.L. 75-688, 52 Stat. 821)

This set gave the Pederal Power Communica (PTC) junkabless over compress which compared and and stratest gate in metrotate commerce. Before 1954, PFC constructs the Naturel Case Acts the Stratest Case and Case and Case and Case and Case compared in 1954, the Stratest Case and Case and Case and compared in 1954, the Stratest Case and C

458

Trans-Alaska Pupeline Authorization Act (P.L. 93-153, 87 Stat 584)

This set directed the Secretary of Interior to issue the necessary authorizations for construction of the trans-Alaska pupeling to earry orarde off from Preduce Bay to Valdez. This ippointo when completed (atometime in 1977) will have an ultimate design capacity of 2 million barrish of crude eil per day.

459

Emergency Petroleum Allocation Act of 1973 (P.L. 03-159; 87 Stat 627; 15 U.S.C. 751 et veg. (Supp. HI)),

This test directed the President to temporarily impose a number tory allocation program for onl and onl products so that shoringes resulting from the Arab oil boycost would be shared by uses. The legislation permitted setsilies to press on to third rustingers interastes in the wholicatic price of oil and oil products, and provided it exporting and reductions of supplex to each inset if the stati anapply of the provincing of the price of oil and oil products, and provided to provincing and providence of supplex to each inset if the stati anapply of the provincing of the price of any loss of the price of the price allocation providence verse terminated in 176, but the price allocations are out in a offect.

460

Emergency Highway Emergy Convervation Act (P.L. 93-239, 87 Stat. 1046; 23 U.S.C. 121 (Supp. 1V)).

This legislation provided that the Scoretary of Transportation

should not approve any interstate or officence highway project within a state which has a missmem speed miting on any of its public highways on excessor 61.5 makes per hum. The statest stated that as offer to conserve fuid, learness traffer congenism during ranks hours, limprove air quality, and enhance the use of califia highways and funding familities, the Security should approve project exclusions of the discretism of the security should approve project exclusions of while not abscriptly affecting has and where man transportation idenha.

461

Federal Energy Administration Act of 1974 (P.L. 93-275; 88 Stat. 94, 15 U.S.C. 761 et seq. (Supp. IV))

This liquidities created the Pedrati. Energy Anhibitations (PEA) as is integraving supervisely object proposibility was to manage threaters the fluctuations and galaxies and a project control automities. This set of the strategies a solid galaxies and the strategies are solid and the strategies are solid and the strategies are solid and the strategies and the strategies are solid and the strategies and the strategies are solid and the strategies and th

462

Energy Supply and Environmental Coordination Act (P.1, 93-319, 88 Stat. 246, 15 U.S.C. 791 (Supp. 1V)).

This act's main threat was to temporarily delay certain clean air standards stabilished under the 1970 Clean Air Act. However, it also had severit anayor energy provisions F&A was directed to problete destrice utilities from burning cell or natural gas of their facilities were capable of forming coal. FAA was also given brooder power to gather and publish information noted due to make energy policy decidiosa.

453

The Solar Heating and Cooling Demonstration Act of 1974 (P.L. 93-409; 88 Stat. 1069; 42 U S C. 5517 (Supp. IV)).

The solar heating set authorized the appropriation of \$60 million over a 5-year period to develop solar heating and ecoling systems for buildings.

454

Gosthermal Energy Research, Development, and Demonstration Act of 1974 (P.L. 93-410; 88 Stat. 1079, 30 U.S.C. 1162 (Supp 193). The geothermsi act authorized \$50 million to guarantee losis for the acquisition and development of geothermal resources.

465

Energy Reorganization Act of 1974 (P L. 93-438, 88 Stat. 1233, 42 U S C. 5081 (Supp. 1V))

This assess behinder the A stanis Recy Commission (AGC) de instanticar la listancia is we new agresco-té Recyz Rede instanticar la listancia is we new agresco-té Recyz Resolution (Arrange al anticarte al anticarte al anticarte al anticarte al resolution) and anticarte al anticarte al anticarte al anticarte development and presentational pagement. The call an anoted to accude states and anticarte al anticarte al anticarte al anticarte and development and the anticarte and anticarte and anticarte and anticarte al anticarte and anticarte and anticarte and antithe Datasettes of the Instance and anticarte and antitarte anticarte and anticarte and anticarte and anticarte anticarte and anticarte and anticarte and anticarte and antiarter and anticarter and anticarter and anticarter and antiarter and anticarter and anticarter and anticarter and antiarter and anticarter and anticarter and anticarter and antiarter anticarter anticarter and anticarter anticarter anticarter and anticarter anticarter and anticarter anticarter anticarter antiarter anticarter antitarter anticarter anticar

466

Solar Energy Research Development and Demonstration Act of 1974 (P L. 93-473, 88 Stat. 1431; 42 U.S.C. 5551 et seq. (Supp. IV))

The solar energy bill authorized \$75 million for solar energy research.

467

Foderal Non-Niclear Energy Research and Development Act of 1974 (P.L. 93-577; 88 Stat. 1878; 42 U.S.C. 5901 et soq. (Supp IV)).

This set established a 10-year S20 billion program of research and development (R and D) in nonmoleur energy sources. It established broad policy policillaris for energying cut nonsuction R and D to go along with the nuclear energy policy established by the Atomic Bargy Ato (1954. Most energy R and D programs were assigned to the Energy Research and Development Adsemptistica (RBRA).

468

Entrgy Policy and Conservation Act (P L, 94-163; 89 Stat. 871; 42 U.S.C. 6201).

This act established a number of new energy programs, mainly in the conservation area. Among the more significant provisions of the act are the following: (1) establishment of a strategic petroleum reserve, (2) establishment of mandatory automobile efficiency standards, (3) continuation of crude oil price controls through May 1979. and (4) establishment of a \$750 million loan guarantee program to develop new underground coal mines. In addition, title V of the act suthorized GAO to independently verify energy data, and stated that GAO may use its authority to inspect the books and records of private persons and companies under the following conditions: (1) if s company is legally required to submit energy information to the Federal Energy Administration and the Federal Power Commission, or the Department of the Interior; (2) if a company is orgaged in the energy business, other than at the retail level, and (a) furnishes energy information directly or indirectly to any Federal agency, exctuding the Internal Revenue Service, and (b) GAO determines that the Federal agency uses this information in certrying out its official functions and 0.3 the energy information is any financial information perturbing to a vertically integrated performance company in correspond to our corponentialities and/or table V of the Act, the Comptoniar General is subscripted to: (1) sign and since subportant, (2) cogies any penasion or legib to interrogations(3) administer eachs, and (4) assess and collect evely presides not to taxead \$10,000 for each volution.

465

Constal Zone Management Act Amendments of 1976 (P.L. 94-370, 90 Stat. 1013).

This set provided coastal states with funds to cope with the condoce impact of offshore of and gas exploration and production settivities. It created a 10-year \$12 billion coastal energy impact program, dispersing jonar and loadities to build additional public facilities needed because of the impact of offbore devicements

470

Federal Coal Leasing Amendments Act of 1975 (P.L. 94-377; 90 Stat. 1083).

The sec cubblished sev policies for leaving excel on Poderal Index, It regarden the Department of the Interior to develop comprehensitive It regarden the Department of the Interior to develop comprehensitive too to administration of the Interior to Interior

471

Energy Conservation and Production Act (P.L. 94-385, 90 Stat. 1125; 42 U.S.C. 6801).

This are was originally increduced to extend the life of FEA part in the SR, 1976 sequination due, The set as researd, and only extended the Line SR, 1976 sequination due, The set as researd, and only extended the set of the second sequination of the set of the second values forwindows, smoog then gregames to improve energy of the bacesing of low-income photomy, and improve shorts willing most bacesing of low-income photomy, and improve the second second from wells using territry productions schedulers, a set in including from wells using territry productions schedulers. The set also exclude them wells using territry productions schedulers are at the second s

472

Emergency Natural Gas Act of 1977 (P.L. 95-2; 91 Stat. 5; 15 U.S.C. 717 (a)(w)).

This set permitted the Preadont to declare a natural gas enerproxy when its from that natural gas weights are conducated for residential, small commercial, and certain other sees. During such an emergency, be President any conject: (1) any facestance pipeline or local distribution company to deliver to any other interastate pipe-time of the distribution company and (2) the consumine after dopentiles by any pipeline of any facilities necessary to effect such Arei 30, 1977. Arei 30, 1977.

SUBJECT INDEX

Includes entries under both Descriptors (representing subject matter) and Identifiers (representing proper names) dealt with in the document, in one alphabetic sequence.

Descriptor		Sample entry:		Identifier	
Electric Power Curtailmen Tale — Curtailment of Electri by the Tennessee V (Repnit) Type of Publication	e Powe alley A	r Service Breeder authority Liquid	Reac Met gam	al Fast Breeder Reactor	Title 046 201
Abstracts Energy Abstracts for Policy Analysis (EAPA) EROA Energy Research Aburacos (ERA)	441 431	Department of the Interac's Prote- duros for Approving Coal Mining Plans (Report) Department of the Interact's Yaewa of Centrecting on Admiratington of	238	Response to Regulatory Agenesis by Orl Comptants for Deviations from Standard Proceedings (Myport) Review of the Pederal Energy Administrations trainable Administry Committant (Re-	148
Solar Energy Update	437	Regulations for Surface Exploration, Minung, and Reclamation of Public and Induan Coal Lands (Report) Development of Interagency Retrain-	993	per0 Reverse of the Operations Division of the Pederal Energy Administration (Report)	143
Accident Provention Spail Prevention Control and Counter- measure System (SPCC3)	342	ships in the Regulation of Nuclear Materials and Facilitats (Report) Entry Construction at Government Field Installations Program and Problems (Report)	055 928	Revorw of the 1974 Project Independ- ence Evaluation System (Report)	178
Accounting Benkeeping System The Federal Energy Administration's	400	The Foderal Energy Advantation's Complement and Enforcement Activi- tics (Testenson) Federal Energy Advantationer's El-	119	Administrative Remodies A Bill to Essend the Federal Energy Administration Act of 1974 (Tos- almany)	179
Compliance and Enforcement Pro- cesses (Particular) Fanacial Information System Importance of Propertial Data in Eva-	125 421	forts to Audit Damosto Crede Oil Producers (Report) Followup on Certain Matters Concern- ing the Importon and Regulation of	133	Department of the Insence Study of Shut-In Oil and Gas Well Comple- tions and Lense-OAO Observations (Report) Energy Receptroston Legisition	224
haptenet of research Does in Dri- haming Folcoal Energy Programs (Speed) Requests to Regulatory Agenesis by Od Companies for Deviations from	144	Outer Continental Shoff Oil Open- tions (Report) Improving the Operations of the Fed- eral Energy Advancements on Region X	509	(Tariwany) Followup on Cetain Mailous Concern- ing the Inspection and Regulation of Outer Contential Shift Oil Opera-	184
Streaderd Procedures (Report) Review of Royelty Accounting System for Orshore Oil and Gas Leases	148 253	Office (Report) Information-Outhering Activities of the Nuclear Regulatory Commission (Re- acrd)	111	tions (Report) Importance of Financial Data is Eva- lations Foleral Energy Programs	208
Royalty Accounting System Study of Solid Mineral Leasing According	254	The Legality of the Reported Use by the Energy Research and Development Administration of Certain Food En- copy Funds (Lenter)	987	(Speech) Improving the Operations of the Fed- eral Energy Administration Region X Office (Appart)	144
Administrative Procedures Actions Taken by the Pederal Power Complexies on Proc Recommends-		Need for Improving the Regulation of the Natural Cas Industry and Man- agreement of Internal Optimistion (Re- port)	113	Indian Natural Responses-Part II: Coll, OII, and Gas-Better Manage- ment Can Improve Development and Interests Incares and Employment	
tions Concorning Regulation of the Natural Gas Industry and Managa- ment of Internal Operations (Report)	1.0	Problems in the Peterni Energy Ad- ministration's Compliance and En- forcement Effect (Appen)	113	(Report) Managaman Improvements Needed in the Faderal Power Communica's Processing of Electric-Rate-Increase	225
Administration of Regulations for Sur- free Exploration, Mining, and Reela- mation of Public and Indian Coal Lands (Report)	073	Problems in the Federal Energy Office's Implementation of Emergency Pe- trolours Alloration Programs at Re- gonal and State Levels (Report)	108	Cases (Roort) Review of the Federal Energy Adminis- tration's Admicey Constitutes (Re-	153
A Bill to Establish a National Energy Information System (Testonomy) Contracting Out Basic Planning and	139	Problems of Independent Refusers and Gasoline Resulters (Report) Refusers, Nuclear Powerplant Load- times, Many Objisoles Remain (Re-	121	part) Role of Federal Coel Resources in Meeting Energy Goals Needs to be Determined and the Lessing Process	143
Managoment Program Functions (Re- port)	088	parti	049	laproved (Separt)	226

Affirmative Action

The Lituid Metal Fast Breeder Reserve Program-Past, Presont, and Pasare (Report) Recoverence Resourcements of the Fedoral Investment in the Tennassee Valley Authanty's Electric Pearse System (Report) Status and Obstacles to Commercializatwo of Casl Liquelaction and Gas-ficalupa (Report The Country's Most Expensive Light Water Reador Safety Test Facility (Report) Arizone Federal and State Solar Energy Rasearch, Development, and Denotysitution Adjustes (Report) Arms Control Agreements U.S. Nuclear Non-Proliferation Policy (Report) Atlantic Richfield Requests to Regulatory Agencies by Oil Companies for Devictors from Standard Procedures (Zeport) Atemic Energy Councilssion Budget History Tables Atemic Weapons An Unclassified Direct of a Classified Report Englied "Safety and Transportation Softguards at Rocky Flats Nuclear Woopons Plant" (Report) Audiovisual Aids Energy Plines Distribution Auditing Compensa on H.R. 11217, 93ed Casgress, a Bill to Further Research, Development, and Commercial Demonstrations in Goothermal Enargy (Leiter) The Cost of Living Council's Astions to Assure That Cost learning for Pe-Irolous, Products Were Made in Apcordance with Petroleum Pricing Repulations (Report) Federal Energy Administration Effects to Audit Futi Oil Supplies of Major Utility Companies (Project Unliky) (Report) The Folceal Energy Administration's Comeliance and Enforcement Activi-DOS (TEDIMONE) The Federal Energy Administration's Constiance and Enforcement Precessa (Teatinoval Federal Energy Administration's Efforts to Audit Domestic Crude Oil Producers (Report) The Federal Energy Administration's Progross in Redworting Its Compleance and Enforcement Program (Arpart

Affirmative Action	
Provincess of Nevajo and Hogs Coal Leaves (Report)	207
Air Conditioning Energy Conservation in Faderal Office Baildings in Caldornia (Report)	002
Energy Efficiency Ratios of Window	
An-Conditioners (Report)	065
Air Pollution Dual Futi Piogram (Report)	001
Energy Data System (EDS)	241
Air Pollution Costrol Dual Poel Program (Report)	001
Electric Power Fiel and Enviropmental Analyses	405
Peterstal for Using Electric Vehicles as Federal firstallations (Reservi	022
Alusku Exploration of National Patroleum Re-	
serve at Alaska Followup Review of the Naval Pe-	270
troleusi Reserves (Report)	220
Planning and Billing System Progress of and Ferom Plans for Ex-	339
ploratum of National Petroloum Re- serve at Alaska	271
Servey of Publications on Exploration, Development and Delayery of Alas- kan Od Mucket (Report)	129
Alasko Pipeline Information on the Proposed Alaska Orf Pupeline (Report)	074
Tenas Aleska Od Pipelene-Progress of Construction through November 1975 (Report	084
Mohol Fuels GAD's l'nergy Role (Speech)	107
Algorio The Parclase of Short-Supply, Energy- Related licens densigh the Experi- lespont Benk of the United States (Report)	236
Anthracite Cost Date Rase	373
Portments Ways in Which Department of Heating and Letter Development Can Pro- mote Energy Conservation (Report)	062
ppropriations Badge: History Tables The Legality of the Reported Usaby the Energy Research and Development	317
Admaistration of Certain Possik En- ergy Panels (Letter)	C87

Subject Index

	GAO's Energy Role (Speech)	177
045	Improvements Needed in Onterola and Accounting for Ground Vehicle Pe- troleum (Report)	01
	Problems in the Federal Energy Ad- ministration's Compliance and En-	
	forcement Effort (Report) Southeastore Federal Power Program-	11
085	-Parazelet Mesagement and Pergram Operations (Report)	17.
059	Automobile Industry Foderal Efforts to Inprove the Faci Economy of New Automobiles (Re- port)	004
200	Automobiles Alicentise Entrgy Proposils (Tes-	16
248	diversal Alicitative Energy Propasals Deve- loped by the General Accessing Of- fice in Response to Congressenal Inquiries: Proposals and Supporting Accessing Proposals and Supporting	16
	Analyses (Testmony) Automobile Classification Data Base	
148	Federal Efforts to Conserve Energy (Report)	34 09
sur	Federal Efforts to Conserve Fael in the Movement of Men and Materials (Re- pert)	
	Federal Efforts to Improve the Paul Economy of New Automobiles (Re- port)	
	Petersial for Using Electric Vehicles on Federal Insualistons (Report)	02
067	Review of Average Fost Eccosery Standards under Title V of Motor Vehicle Information and Cost Sovings	
4	Act	27
	Automobile Standards Analysis of the Deorgy, Economic, and Budgetacy Impacts of 11.8. 6960 (Staff mark)	12
196	Energy Conservation (Teatmany)	61
	Auto Simulation Model Regional Econometric Domand Model and Auto Simulation Model (RD4)	
106	and Ann all and a first of the	38
125	Awords Dopartment of Commerce's "SavEt- ezgy Citations" (Report)	68
119	Belance of Poymetts Allocation of Urasian Exclusors Ser-	
195	vices to Forl Forolgn and Domestus Nuclear Reactions (Report)	23
125	Economic Replications of Ourrent World Dill Proces (Sing) andp)	23
190	Bellefonte Nuclear Plant Bellefonte Nation: Plant (Self-stati	~

Energy Digest SEPTEMBER 1977

Subject Index

Clodding 022

Bentonite		Problem Arras plack Could Affect the		factory Conservation in Federal Office
Land Base System	332	Development Schedule for the Clash		Buildings in California (Report)
Od Shile/Bestoute Title Cirerance	220	Rever Breader Resator (Staff study)	040	
Bibliographies		Proposed Changes to the Atomic En- orgy Commission's Arrangement for Carryone Out the Local Metal Fast		Boses Entrary Centervation Entercose (Tel-
Solar Energy Update	437	Breeder Reactor Demonstration Pro-		shooyi
Technical Books and Monographs	442	jact (Report)	032	
		The Proposed Contract for the Clinch Rever Breader Reactor Preprict (Ta-		Susions Ethics
Bids		timony)	058	Federal Energy Administration's Ac-
Arroutnest between the Secontary of				tions on Allocation and Pricing of
the latence and Officials of the State				Faal (Report)
of Utsh Pertaining to Oil Shele Lenses (Lenter)	209	Budget Information Systems	400	
Introduced Polycies and Precedures for the		Boukkeeping System Financial Information System	420	Batane
Exploration and Development of Ower		FPC Dodget Files	400	Propune/Butane Allocation System
Continental Shell Resources (Instances)	232	National Has for Energy Research,		
		Development, and Compositivity Creating Energy Choices for the Fa-		Celifornia
Billing		the	429	Followup Review of the Naval Pe-
Lasse Management System	333			troloan Raisres (Aspert)
				Notreni Coan Policy Study (Ta- anorni
Bitumineus Cool		Budgets		interpr
Coal Data Ense	373	How Solar Energy Was Treated in the AEC Chairman's Report, "The Na-		
		boo's Energy Future" (Report)	198	Cenede
Bends		The Legality of the Reported Use by the		Issues Related to Poreign Sources of Oil for the United States (Report)
Repayment Requirements of the Fod- erol Investment in the Tennessee Vol-		Energy Research and Development Administration of Certain Fossil En-		an me enner banen (nywo
froi Investment in the Tennessee Vol- ley Authority's Electric Power		trgy Funds (Letter)	687	
System (Report)	099	The Liquid Metal Fast Breeder Reactor		Copital Investments
		Program-Past, Present, and Foliare (Record)	0.65	Natural Gas Shortage: The Role of Int- ported Liquefied Natural Gas (Report)
Breeder Roottor		Ways to Strengthen Congressional Con-		perces Equence (values) was (vipero
Can the U.S. Breeder Reactor Develop-		teel of Energy Construction Projects Other Than Nuclear (Report)	122	
mant Program Be Accelerated by Us- ing Foreign Technology? (Report)	245	Other Than Nothile (Report)	112	
Comments on Energy Research and	10			Cotologs Technical Books and Managerants
Development Administration's		Bueno Visto (CA)		received books and writing spea
Proposed Arrangement for the Clinch River Breeder Reactor Demonstra-		Management of and Place for the Naval Potrologita Reserves (Seport)	227	
tion Plant Propert (Report)	044	Contrast Interior Induce		Central Valley Project (CA)
Cost and Schodale Estimates for the				Californu's Central Valley Project-
Nation's First Liquid Metal Fast Breeder Reactor Demonstration Pow-		Building Codes National Standards Neoded for Rosi-		-Proposed Power Rate Increase (Re-
erplant (Report)	0.0	dential Energy Conservation (Report)		Propessed Power Rate Increase of the
The Energy Research and Develop-			019	Batasy of Reclamation's Central Val-
ment Adamastration's Proposed Contract with Project Management				toy Project (Tanimony)
Corperation, Commenwealth Educat,		Building Construction		
and the Tennesson Valley Authority (Report)	056	National Standards Needed for Resi- dential Energy Construction (Report)		Citizen Porticipation
Past Fizz Test Pacificy Program (Staff			019	Efforts to Encourage Conservation as
study)	041	Progress and Pepbloms of the Govern- ment's Utility Conservation Program		the Prevate Sector (Report)
Further Comments on Atomic Beergy		(Report)	021	Baview of the Foleral Energy Admina- trainon's Advancy Countritness (Re-
Commission's Proposed Arrange- ment for the Logard Metal Fast				peri
Breeder Reacter Demonstration Pre-	633			
Jeet (Report)	633	Building Design Hew Federal Agencies Can Conserve		
Liquid Metal Fast Breeder Reactor Plant Parameter Information Sys-		Utilities and Reduce their Cost (Re-	007	Civil Militery Relations All Pershaws and Condemnation Pro-
62m	425	port)	000	confines Reserving the Nevel Pe-
The Liquid Metal Fast Breeder Reactor Program-Past, Pressol, and Peture				trolears and Orl Shale Reserves
(Reard)	045	Buildings		Protection of Oil Reserves
Liquid Metal Fast Breeder Reactor		Alternative Energy Proposals (Tea- stream)	165	
Program-Past, Present, and Petune (Tenteness)	046	Alternative Energy Proposals Deve-	-10	
The Linead Metal Fast Breader Reactor	040	leped by the General Accounting Of-		Clouding Liouid Metal Part Brander Resolut
Pressies and Uncertainlifes (Saff		fice in Response to Congresseoral Inquiries: Proposals and Supporting		Path-Claddag Information Conter
stady)	049	Analyses (Testimony)	166	(LMPBR)

Energy Digest SEPTEMBER 1977

Buses	
Energy Conservation Financing (Tea- binomy)	027
Bosloves Ethics	
Pedaral Energy Administration's Ac- tions as Allocation and Pacing of	
Fool (Report)	116
Batane	
Propune/Butane Allocation System	349
Celifornia	
Followup Review of the Naval Pe- troleum Raserves (Report)	220
Naturenti Coccan Poliscy Study (The- Annorge)	212
Conodo Issues Related to Poreian Sources of Oil	
for the United States (Report)	235
Costol Investments	
Copifed Investments Natural Gas Shortage: The Role of In- ported Liquefied Natural Gas (Report)	
perten Liqueting Naturni Gas (Keperty	241
Cotologs Technical Books and Menn-graphs	442
Centrol Valley Project (CA) Californa's Central Valley Project-	
-Proposed Power Rate Increase (Re-	155
Proposed Power Rate Increase of the	
Barrasy of Reclamation's Central Val- toy Propert (Tenimony)	101
Citizen Porticipation Efforts to Encourage Conservation as	
the Provide Sector (Report) Review of the Folgent Energy Admirat-	009
traina's Advancy Committees (Re- pard	183
Civil Militery Relations	
All Perchases and Condemnation Pro- condings Regarding the Neval Pe- trelears and Ori Shale Reserves	219
Protection of Cil Reserves	261
Clouding Liquid Metal Past Breader Resolor	
Past-Cladding Information Center (LMFBR)	450

119

Claims Oil Shale/Benautate Talle Classance	33
Classification Systems Automobile Classification Data Bape	34
Clinch River Broader Reacter Can the U.S. Breeder Reacter Develop- ment Postum Be Accelerated by Us- ing Foreign Technology (Repar) Institutional Corporations in Tetregy Research and Development (Ter- teresy)	24
Liquid Metal Fast Breeder Reacter Program-Pass, Present, and Fatare (Teamony)	046
Problem Areas which Could Affect the Development Schedule for the Clusch Barer Breeder Resister (Sissif study)	040
Clisch River Breader Reorter Demonstrotion Plant Correns on Energy Research and Drukeprost Atmagnetic fact the Clasch Rever Beeder Rescore Demonstra- nen Plant Trager (Agoud) The Energy Research and Develop- pent Admissionation Program	844
Contract with Project Management Corporation, Cormonwealth Educe, and the Trainsson Valley Authorary (Report) The Proposed Contract for the Clinich	056
River Sceeder Rascoer Project (Ten-	058
Cotol Castalizens of Electric Power Sarvice by the Teastuse Valley Authority (Apper) Esployee Disclassics under the Ele- ergy Pohys and Censervasia Act Energy Relicers of Nicelar and Cas-	117 265
canonal Parts Used to Produce Electronty (Repart) Energy Resource Data Systems Passenal Databases by Employees	004 328
Policy and Conservation Act	287
Fossi Energy Program Report International Coal Supply Model	311 587
interestional Energy Evaluation Sys- ters (IEES) Major Fael Barrarg Installation-Early Planning Process Mestification (EPPE)	384
Major Foel Romang Installations (MPath	358
Management and Fending Aspects of Three Normaclear Energy Research, Development, and Demonstration Subprograms (Report)	356 200
Monthly Energy Review	281
120	

5	Cosl Purchase Contracts (Report)	092
	Plans for Construction of a Magnetichy- drodynamics Tost Facility in Mon- tans. (Report)	CEV
5	Short Term Coal Demand Forecasting Model	376
,	Cool Exports The Esportston of Cool (Report)	244
	Coal Gasification Comments on the Administration's Proposed Synthese Fuels Contenen- culturion Program (Report) Implementants of Dergalaring the Proce	140
	of Natural Gas (Report)	125
	States and Obstacles to Commercializa- tion of Coal Legarfacture and Gapfi- cation (Report)	085
	Cool Industry Role of Potent Coil Resources in Meeting Energy Goils Needs to be Determined and the Leasing Process Improved (Ropod)	226
	Cool Lenses Coul Lense Data System	329
	Department of the Interior's Proce- duces for Approving Coal Mitting Plans (Report)	228
	Development of Redaral Coal Ra- sources (Teathoory) Federal Coal-Leasing Programs of the	223
	Department of the Intensor (Report)	221
	Further Aution Needed on Recommen- detons for Improving the Advann- menon of Federal Coal-Landing Program (Report)	217
	GAO's Energy Rule (Speech)	177
	Indum Natural Resources-Part II: Cost, Oil, and Gas-Better Manage- mean Can improve Development and Increase Income and Employment (Report)	
	Provisions of Navajo and Hope Coal	215
	Levices (Report)	207
	Rate of Poderal Coal Resources an Meeting Energy Goals Needls to be Determined and the Leasing Process Improved (Report)	226
,	Coal Liquefaction Status and Obstacles to Correspondiza-	

National Coal Model (RMAC)

OECD Energy Densed Model

National Energy Policy An Agenda for Analysis (Report)

Opportunition for Improvements in Re-

379 tion of cabat

191

386 Coal Miner

Determine Striptuner formation **Coal Prices**

non of Coal Lagrafiction and Gauti- cation (Report)	085
Cool Mines Advantations of Regulations for Sur- face Exploration, Mining, and Recis- mition of Public and Indian Coal Lands (Report) Departments of the Interfer's Views of Contrastors on Advantationans on Regulations for Service Exploration, Mining, and Recimations of Public	693
and Indian Coal Lands (Report) Development of Foderal Coal Re-	095
secrets (Tenseney)	223
Pederal Cosl Research-Status and Problems to Be Revolved (Report)	680
Further Action Nacdad on Recommen- dations for largeoung the Admassi- aration of Federal Coal-Leasing Programs (Repeat) Opportunities for Information and Re- claining Strap-Mined Lands under Coal Philodose Costracts (Report)	217 092
Coal Mining Department of the Interior's Proce- durus for Approving Coal Mining Plans (Report)	228
Federal Coal-Leasurg Program of the Department of the laterior (Report)	
Indust Natural Resources-Pare II- Caal, OA, and Gas-Sector Menage- rent Cas Improve Development and Intercest Internet and Environment	221
(Report)	225
International Coal Supply Model Problems Caused by Coal Missing Near	387
Foderal Reservoir Proposts (Report) Problems Canned by Coal Missing Near Federal Reservoir Projects (De-	075
nearestyl Role of Federal Cosl Resources in Matting Energy Goals Needs to be Differentiated the Leader Resources	076
Improved (Report)	226
Stripmining and Land Reclamation In- formation System	435
oal Prices	
Coal Data Base	373

Coal Production	
Coal Data Supe	37
Project Independence Evaluation Sys- tem (PIES)	38
Cost Reserves	
Coal Data Saac	37
Pederal Coal-Leasing Program of the	

Department of the interior (Report)	
Adjustment of the Interior (Report)	22
Pederal Cost Research-Status and	
Problems to Be Reacived (Report)	090
Information on Selected Aspects of the	
tey Authority (Report)	167
Reserves Allocation and Mine Cost	
Model (RAMC)	2.00

Energy Digest SEPTEMBER 1977

044

401

60

052

124

228

641

044

010

161

0.63

043

184

050

......

204

392

394

Coostel Zene Management The Council Zone Management Pro- grams An Uncertain Fourie (Report) Report to the Congress on Coestal Zone Management	187 255	Employce Disclosures under the En- ergy Policy and Conservation Act The Energy Research and Develop- ment Admission and Develop- ment Admission Admission and Contrastic, Commonwealth Edisor, and the Tennessee Valley Authority (Recent)	265	Community on Energy Research and Development Administration's Proposed Amingement for the Clinch River Breeder Basetor Demonstra- tion Plant Propert (Report) A Comparer Code for Conceptual Cost Extension of Sonen Illectric Power Plants (Concept)
Celorada Progress and Problems in Developing Nooleer and Other Experimental Techniques for Recovering Natural Dass into Rocky Maximan Area (Re-		Pinanelal Datolstanes by Briplayees Performing Panetions under Energy Policy and Construction Act Need for the Federal Power Commu- uent to Interove the Respiration of the	287	Cost and Schedule Estimates for the Neture's First Lapeld Metal Part Exceder Reactor Demonstration Pow- erplant (Report)
part)	077	Natural Gas Industry and Manage- ment of Its Internal Operations (Ta- strong)	114	Energy Research and Development Administration's Contingency Plan for More Economics Cospacity at Perturneeth, OH (Report)
Columbia River Power System Armes Report on the Columbia River Power System Consolidated Financial Statement of	275	Congressional Oversight Ways to Strengthen Congressional Con- tral of Energy Construction Projects		Evaluation of the Administration's Proposal for Government Assaultion of Private University Enrichtment Groups (Report)
the Federal Columbia Rover Power System	274	Other Than Nuclear (Report)	192	An Evaluation of the Federal Power Commission's Rulemaking on Unli- tes' Construction Work in Program (Record)
Common Corriers Frocedures for Evaluating Reasonable- puts of Petroleum Provine Rates		Conservation America's Energy Pattons (Speech) Conservation Division Task Force Re- port on the Ondorn Lease Manage-	190	(Report) Fast Flax Test Pasility Program (Staff stady)
Need Improving (Report) Protoning Sponial Nuclear Material In Transit Insprovements Mede and Ea-	094	pert of the Userone Lense what ge- ment Program Study for the U.S. Geological Survey Cartailment of Electric Power Service	249	Luquid Metal Fast Breefer Reactor Program-Past, Present, and Putars (Testerang)
uting Problems (Report)	685	by the Tennessee Valley Authority (Repert) The Department of Defense's Consor-	117	National Standards Needed for Resi- dential Energy Conservation (Report)
Communiat Countries Submassion of U.3 S.R. Energy-Related Three-supers for Congruinional Re-		vation of Petroleum (Report) Efforts to Encourage Conservation in the Private Soctor (Report)	012 009	Pacific Northwest Hydro-Thormal Power Program—A Regional Ap- prough to Meeting Elecatic Power Ro- quitements (Report)
view	200	finergy Conservation at Government Field Installations: Progens and Problems (Report) finergy Conservation: Poderal Energy	028	Poor Management of a Nuclear Light Water Reactor Safety Project (Report)
Community Porticipation Project Conterve	14	Managamont Program	292	Sequoyah Nuclear Plant (Staff study)
Project Colline III		Reargy Conservation Featuring (Ter- meany) Evergy Conservation Practices En-	027	Status of the Grand Couloo-Raver Transmission Line Project (Report This Country's Most Expensive Light
Competition Procurement of Foreign and Domestic Petroleum by Department of Defense		ecoraged by States (Report) Energy Conservation Program at Prve Gevernment Contractors (Report)	006	Water Resolver Safety Test Facility (Report)
(Report) Survey of Paderal and Electric Unity Propartements of Power Equipment	091	Energy Policy Decisionnaking, Organ- tation, and National Energy Goals (Report)	193	Consultants
(Report)	162	lastes Needing Attention in Develop- ing the Strategic Petroleum Reserve (Report)		Contracting Out Bislic Planning and Management Program Paractions (Re- port)
Compliance	253	(August) National Energy Policy: An Agenda for Analysis (Report)	191	
Lease Management System	100	Policies and Programs Being Developed To Espend Procurement of Products Completing Recycled Materials (Re-		Consumer Education Progress of Energy Conservation Pro- ation for Consumer Products Other
Compost Opportunities for More Effective Use of Ankowi Manura (Report)	626	port	023	Thun Assertabiles
Computers Progress and Problems of the Govern- ment's Utility Conservation Progress (Record)	(2) (2)	Construction Beliefstate Nuclear Plant (Staff analy) Report by the U.S. Energy Research and Development Administration. Status of Construction Projects and Other Data	654 313	Consumers PEA Household Barryy Expenditure Model (HEBM) PBA Household Energy Survey
		Report on Activity and Program Index of the Energy Research and Develop- ment Administration: States of Cos-		Contract Administration Comments on Energy Research and
Conflicts of Interest Aotics Proposed Concerning Cosflict of Interest	288	structure Projects and other Data	312	Development Administration's Proposed Arrengement for the Clutch River Breeder Reactor Demonstra-
Contracting Out Basic Planning and Management Program Puretions (Re- port)	64 8	Construction Costs Beliefonte Nuclear Plant (Staff study)	054	tica Plant Project (Report) Contracts Information System (CIS)

Energy Digest SEPTEMBER 1977

044 430 121

0.52

033

a22

050

054

015

me

m4

400

122

008

334

195

226

044

- The Evaluation of the Administration's Pennesal for Government Assistance Firste Useram Enchances Genes (Testores)
- Further Commission Atomic Entries Commission's Proposed Arrange ment for the Liquid Metal Fast Breeder Reason Domonstration Prosect (Accerti)
- Proposed Changes to the Atenic Energy Commission's Arrangement for Corrows Out the Limit Metal Part Breeder Reactor Demonstration Prowest (Reserve)
- The Proceed Contact for the Carch Roser Beneder Reserve Panaet /Tesamanel

Contract Medifications

- The Energy Research and Dreston ment Administration's Proposed Contract with Project Management Contractor Contractorship Report and the Texnessee Valley Asthority (Report)
- The Parcoard Commer for the Clinch River Breeder Reaster Project (Ter-

Contractor Responsibilities

Energy Conservation (Testassau) Receiv Conservation Poneram at Pirch Government Continuous (Report) Incrovements Needed in the Program for the Protection of Special Nuclear Manufal (Reauti)

Centracters

- Convacts Information System (CIS) The Effects of Oil Price Increases on Senal Runness Contracts (Report)
- Energy Conservation Program at Pove Government Contractors (Report)
- Library of Executed Electric Power Comracts
- Management of and Plans for the Naval Petroleur: Reserves (Report)
- Microscopes) of the Atomic Energy Commission's Controlled Thermost citar Research Program (Report)
- Procurements of Poseign and Damostic Petroleum by Oppariment of Defense (Report)

Contracts

- Allocation of Litzasan Enrichment Services to Fuel Foreign and Doctestio Nuclear Reacters (Report
- Amount of Natural Gas that Could Be Released from Federal Price Regulations upon Expiration of Contracts from 1975 through 1985 (Testiman)
- Comments on Energy Research and Development Administration's Proposed Arrangement for the Clinch River Breeder Reactor Demonstration Plant Project (Report)

	~

Contracting Out Base: Handing and Management Program Panetions (Re- port)	660
Contracts Information System (Cli5)	430
The Effects of Oil Price Increases on Small Business Contracts (Asport)	123
The Energy Research and Develop- ment Administration's Proposed Constraint with Project Management Corporation, Commonwealth Editors, and the Temesace Valley Authority	
(Appent) The Explanation of the Administration's Proposal for Government Assistance to Private Unstant Enrichment	056
Groups (Testanony)	653
importance of Pinancial Data in Eva- luating Federal Energy Programs (Speech)	144
Lease Management System	\$33
The Legality of the Reported Use by the Energy Research and Development Administration of Centern Fould In-	
ergy Funds (Letter) Library of Escuted Electric Power	667
Contracts Management of the Atomic Brong/	334
Commission's Controlled Thermony clear Research Program (Report)	195
Procurement of Foreign and Domentic Petroleum by Department of Defense (Report)	691
Proposed Changes to the Atomic En-	091
ergy Commission's Arringement for Carrying Out the Leptid Metal Feat Breeder Reactor Demonstration Pro-	
jeet (Report) The Proposed Contract for the Clinch	002
River Breeder Rosser Project (Tes- means)	656
Refunds on Outer Castinesssi Shelf Lesses	240
Reliable Commet Sales Data Needed for Promiting Amounts of Natural	
Gas That Could Be Deregulated (Re- port)	172
Cooling Systems National Solar Heating and Cooling In-	
formation Consor Review of Scienced Federal and Private	422
Solar Energy Activities (Report)	197
Corperate Planning Proposed Bankhitmeret of Joint Feder- si-Industry Neusscieter Corpora- sion	315
Corparettions Proposed Brabbinemen of Joint Poder- al-Industry Neemaclear Corpora- tion	315

Cost Accounting

Importance of Financial Data in Eva- lusting Federal Energy Programs (Speech)	144
Operating Cost and Environmental Radiation Monitoring at the Ship- pingport Atomic Power Station (Re-	
part)	042

Subject Index

Cost Anolysis The Cost of Living Controll's Actions to Assue That Cost represents for Pe- treletam Products Were Mode in Ar- endrators with Percokane Printing Regulations (Reyord) Proposed Power Rule Information of the Broom of Reclamatica's Central Val- ley Noight (Trainboxy)	106 101
Revenues and Costs Allocated to Power Operations at Multiple-Purpose Pro-	
jects in the Southwostern Podecal Power System (Report)	696
Status of the Grand Catlero-Raver	
Transcussion Line Project (Report) Survey of Federal and Electric Utility	184
Procurements of Power Equipment	162
(Report)	162
Cost Control Proposed Changes to the Atorsic En- orgy Controllingen's Armagement for Carrying Out the Light Menil Fast Birceder Release Deconstruction Pro- jocs (Report)	032
Cost Effectiveness Operating Cost and Environmental Redistant Monitories et the Ship- pingport Atomic Power Station (Re- port)	042
Cost Estimates Fast Plan Test Pacifity Program (Staff stady)	641
Cost Overruns Proposed Charges to the Atornic En- regy Costroyed's Antingunent for Costrolog Research and the Derivation Research and the pet (Regerd) This Country's Mort Expensive Light Water Research Selecy Test Pacifiky (Regerd)	032 059
Coats Constronts on Energy Research and Development Administration's Proposed Arrangement for the Clinic River Render Reactor Desenta- tion Piten Project (Report)	044
Cost and Schodule Bailustes for the	
Nation's Float Liquid Metal Fest Breader Reactor Demonstration Fow-	
orplant (Report) Further Comments on Atoms Energy	60
Commission's Proposed Arrange- ment for the Liquid Metal Past	
ject (Report)	603
Legality of Administration Actions in Printing and Storing One Coupons	
(Letter) The Liquid Metal Fast Breeder Reactor	104
Program-Pasi, Present, and Puttice	
(Report) Poor Management of a Nuclear Light	045
Water Reactor Safety Project (Report)	045
	065

Energy Digest SEPTEMBER 1977

Subject Index

Actions Needed to Improve Federal Ef-

Problem Areas which Gold Alfeet the Development Schedule for the Clinch Every Breeder Reactor (Sulf and) Researe of Schedule Fockers and Private Schen Brange Actunitie (Report) Sequeryth Nuclear Family (Report) Sequeryth Nuclear Family (Report) Ways in Whitch Department of Hooling and Urban Development Can Pro- mote Energy Conservation (Export)	
Credit , Financial Report on the Geothermal Resources Development Fund	
Criticality Criticality Data Center	
Crude Oli Crade Oli Buy/Sell Progenn Crade Oli Entitlements (Equation- tion) Crade Oli Fust Furchaser	
Domestic Crude Oil Pricing Policy and Related Production (Report) Energy Information Reported to Con-	
result of the second se	
DECD Reergy Demisid Model Problems in the Federal Energy Ad- miciatization's Complexitions and En- forcement Effort (Report) Problems of Independent Refiners and Onsolane Retailers (Report)	
Crude Oil Imports FEA Oil Import System Joint FEA/SOM Pateoleam Reporting System Transfer Pricing System	

	Crude Oil Prices	
040	Information on the Proposed Alaska Oil Pipeline (Report)	074
197		
043	Crude Oil Production Crude Oil and Nataral Gas Production Model	396
	Cruste Oil Prozent Model (DCROPS)	107
003	Cti and Gas Supply Medel	378
	Project Independence Evaluation Sys- tem (PINS)	381
309	Crude Oil Reserves Dil and Osa Supply Model	378
445	Currencies A Summary of European Views on De- pendency of the Pree World on Mid- die East Oil (Report)	234
350		
	Doms	
362 365	Power Production at Federal Dams Could Be Increased by Modernezing Turbines and Generators (Report)	205
112	Tables are declarate (kyer)	-
	Data Analysis	
	Actions Needed to Improve Federal Ef-	
183	forts in Collecting, Analyzing, and	159
399	Reporting Energy Data (Report) A Bill to Establish a National Energy Information System (Desurease)	159
290	Californa's Cantral Valley Project-	140
	-Proposed Power Rate Increase (Re- pert)	156
119	The Changing Role of the General Ac-	
125	counting Office in Energy Informa- tion and Data Programs (SpeerA)	184
123	Contracts on the Energy Information Act (Letter)	170
133	Energy Data Collection in the Poderal Government (Textimety)	157
	The Energy Information Act, S 1864 (Tensoong)	176
120	The Pederal Income Taxes of Class A and 8 Electric Utilities (Report)	185
	Improvements Still Needed in Federal Energy Data Collection, Analysis,	
124	and Reporting (Report) Nuclear Regulatory Communica's Pro-	182
138	gram for Evaluating Environmental Impacts of Construction and Dpers-	
384	tion of Nuclear Powerplants (Report)	031
281	Outer Continental Shelf Gil and Gas Development Improvements Needed	
285	in Determining Where to Lesse and at What Dollar Value (Report)	218
285	Relable Contract Sales Data Needed	
	for Projecting Amounts of Natural	
118	Gas That Could Be Deregulated (Re- pert)	172
121		
	Data Boses Pederal Borrgy Information Locator System (PEILS)	366
354		
	Date Collection	
375	Accelerated Onter Continental Shelf	
351	Development (Testimory)	219

Reporting Energy Data (Report)	15
Actions Taken by the Federal Power	
Commission on Prior Recommenda- tions Concerning Regulation of the	
Natural Gas Industry and Monage-	
ment of Intental Operations (Report) A Bill to Establish a National Energy	143
Information System (Testivery)	154
A full to Extend the Federal Energy Administration Act of 1974 (Tap-	
docent	17
Certain Actions That Can Be Taken to Help Improve This Nation's Unmann	
Picture (Report)	66
The Changing Role of the General Ac- counting Office in Rnergy Informa-	
tion and Data Programs (Speech)	186
Comments on the Energy Information Act (Lener)	124
Energy Data Collection is the Federal	
Government (Tentworg) The Energy Information Act. S. 1864	137
(Testimony)	178
The Expectation of Cost (Report)	244
Federal Efforts to Conserve Fael in the Movement of Men and Materials (Re-	
port) Improved Policies and Procedures for the	oc.
Exploration and Development of Dater	
Continental Shell Resources (Testsons)	23
Improvements Still Needed in Federal Energy Data Collection, Analysis,	
and Reporting (Report)	160
Information-Oathering Activities of the	
Nuclear Regulatory Commission (Re- 2011)	16
Need for Improving the Regulation of	
the Natural Gas Industry and Min- agement of Internal Depretures (Re-	
port)	114
Need for the Federal Power Commis-	
ston to Evaluate the Effectiveness of the Natural Gas Curtailment Policy	
(Report)	190
Problems in the Pederal Energy Office's Implementation of Emergency Pe-	
troleum Allocation Programs at Re-	
peasi and State Levels (Report)	108
Proposed Energy Investory Act of 1974 (Lener)	160
Reliable Contract Sales Data Needed	
for Projecting Amounts of Natural Om That Could Be Deregulated (Re-	
parti	17
Review of the Information-Gathering Practices of the Foderal Energy Ad-	
Practices of the Federal Energy Ad- ministration (Report)	18
Decisionmaking	
Energy Data Collection in the Federal Government (Textinger)	15
Energy Policy Decisionmaking, Organ-	13
izetion, and National Energy Goels	
(Report)	12
Review of the Foderal Energy Adminis- tration's Advisory Committees (Re-	
porti	18

Defense Contracts

Se	coll Besines	s Conteses	s (Report)	123

Energy Digest SEPTEMBER 1977

Defense Controcts

Energy Conservation Program at Five Government Contractors (Report) Procedures for Evaluating Reasonable-	00
ness of Petroleum Papelane Rates Need langrowing (Report)	09
Defense instelletions The linergy impact of Moving Department of Defense Annores flows the Milarry Occas Terminal, Broadyn, New York, to Baycone, New Jerney (Argon)	01
Dafance Processment The Effects of O.J. Price Internases on Small Business Contracts (Report) Policies and Programs Braing Developed To Expend Processments of Products To Expend Processments of Products	12
Costarung Recycled Materials (Re- port)	023
Procedures for Evaluating Researchie- news of Petroleum Pipeline Rates Need Improving (Report) Procemented of Poreign and Ocarcesce	09-
Potroleten by Depirtment of Defease (Report)	691
Demography	
Stringgrouny Socio-Economic Baymenesental Demo- graphic Information System (SEE- D(3)	44
Demonstration Projects Activities of Each Groebennal Demon- stance Project	307
Comments on Energy Research and Development Administration's Propuled Arrangement for the Clicich River Brooder Resolution Demonstra- tion Frequet (Appin)	044
Communia en H R. 11212, 5316 Con- grant, a fill to Further Research, De- velopment, and Commercial Demonstrations in Genthermal Ba- ergy (Lano)	
Company on the Administration's	175
Proposed Synthesic Paela Camane- culturation Program (Report) Cost and Schedule Estimates for the	140
Namon's First Liquid Metal Fast Breeder Reastor Opmonstration Pow- esplant (Report)	047
Federal and State Solar Energy Re- search, Development, and Demon-	
stration Activities (Report) Funtacing for Commercial-wood Demonstrations of Energy Technolo-	200
ges (Televeny) Pother Comments on Adomic Energy	140
Commission's Proposed Amazge-	
Breeder Reactor Demonstration Pro- ject (Report)	033
The Liquid Metal Pass Breeder Reactor ProgramPast, Present, and Patare (Report)	
Liquid Metal Past Breeder Reactor Program-Past, Present, and Patere	043
(Tenensey) Plans for Construction of a Magnetichy-	046
drodynamics Test Facility in Mon-	

Deregulation
Amount of Natural Gas that Could Be
Released from Federal Price Rogula- tions upon Expiration of Contracts
from 1975 through 1985 (Tentmony)
Future Energy Osmand (Speech)
OAO's Energy Role (Speech)
Implications of Geregalating the Price of Natural Gas (Report)
The Implications of Deregulating the Proc of Natural Gas (Testensey)
Importance of Financial Date in Eva-
lasting Federal Energy Programs (Speech)
Rebeble Contract Sales Data Neoded
for Projecting Amounts of Natural
Gas That Could Be Deregulated (Re-
part)
Provide states a
Developmental Costs Seaton and Obstacles to Commercializa-
non of Coal Lagestacton and Oasif-
ceture (Report)
Dictionaries
PEA Data Dictionary
Distillates
Cost and Pricing System
Market Sharas System
Regional Econometric Demand Model and Auto Simulation Model (RD4)
Subpart L
Demastic Crude Oli Crude Oli Furn Parchaser
Crade Oil First Parchaser
Dreinege
Problems Caused by Coal Mining Near
Pederal Reservoir Projects (Ter-
Almony)
Drilling
Alternative Energy Proposals (Teo-
(mesp)
Pollowup on Centain Mattern Concern-

ing the Inspection and Regulation of

Problem Areas which Could Affect the

Development Schedule for the Chaoh

River Brooder Reactor (Sigf mudg)

Proposed Changes to the Atomic En-

ergy Commusion's Amangement for

Currying Out the Leptid Metal Past

Breder Reactor Demonstration Pre-

Report on Solar Energy Demonstra-

Special Report on Solar Heating and Cooling Demonstration Program

Status and Obstacles to Concercialization of Coal Legerfaction and Gasifi-

Propert Operations System (POS)

ject (Report)

cetter (Seport)

tage

800

094

011

123 022

685

Outer Contractual Shell Out Opera-	
tions (Report)	208
3ss Supply Indicators	403
The Geological Survey's Insciousness Action on Recommendations Con- orming Inspection and Regulation of Outer Continental Shelf Oil Open-	
tions (Report)	222
iternational Oil Supply Model	358
ole of Pederal Coal Resources in Meeting Energy Goals Needs to be Determined and the Leasing Process	
Introvvid (Report)	226

Subject Index

Improved (Report) **Drilling Equipment** 665

Gas Seculy Indicator

The Geological Sur

International Oil Supp

Role of Federal Co.

tions (Report) 032

tions (Report) 040

36)

253

264

137

175

177

135

136

14 172

-

368

174 320

585 349

355

676

145

	Equipment	Production	Sur-	
vey				3
		1-Supply, He such the Ex-		
		be United 3		
(Report				\mathbf{x}

East West Trade

Submission of U.S.S.R. Energy-Rel	
Transactions for Congressional	
wiow	280

Ecology

Scological Sciences Information Center	
(ESIC)	444

Econometric Models	
Coupled Energy System - Brossonia Models	429
Dynamic Input-Output Linear Pro- gramming Model for Regional En- orgy Impact Applysis (DIOLP)	321
FEA Household Energy Expenditure Model (HEEM)	393
International Energy Evoluation Sys- tem (IEBS)	384
OECD Energy Demand Model	385
Project Independence Evaluation Sys- tem (PIES)	381
Regional Boonometric Demand Model and Auto Simulation Model (RD4)	
	385
Regional Industrial Multiplier System (RIMS)	392
Short Term Coal Demand Forecasting Medel	376

Economic Analysis

Review of Selected Federal and Private Solar Energy Activities (Report)	197

Economic Assistance

opment of Foreign Nuclear Energy	
Programs (Report)	239

Economic Development

Pature Energy Demand (Speech)	175
Neoclassical Regional Orowth and Ba-	
ergy Price Model	389

Energy Digest SEPTEMBER 1977

tens (Report)

Economic Impact Compreherance Human Resources
Data System (CHRDS) Coupled Energy System - Economic
Models
Dynamic Inpet-Output Linear Pro- geamming Model for Regional En- ergy Impact Analysis (DIOLP)
The Economic and Environmental Im- pact of Natural Gas Curtainments dur- ing the Winter of 1975-76 (Report)
FEA Household Energy Expenditure Model (HEEM)
Fiteal Impact of Energy Pree Changes on State and Local Ocvernment Per- chases of Goods and Services
Income Distribution Impact Model
Neoclassical Regional Growth and En- ergy Price Model
Onter Continental Shelf Oil and Oas Development. Improvements Needed in Determining Where to Lease and at What Dollar Value (Report)
Project Independence Evaluation Sys- tem (PIES)
Regional Industrial Multiplier System (RIMS)
Ropert on ERDA's Normaclear Activi- des
Soverance Tax Model
Economic Policy The Economic Impact of Energy Ac-
Economic Implications of Current World OII Protes (Staff study)
Issues Related to Foreign Sources of Oli for the United States (Report)
Economics Energy Absences for Policy Analysis (BAPA)
Egypt Aloostion of Urmium Barohment Scr- vices to Yoel Foreign and Domestio Naclear Reactors (Report)
Bactric Power Annual Report on the Columbia River Power System
Bellefonte Norlear Plant (Shaff mulp) Beik Electric Power System Reliabil-
tty California's Centrel Velley Propert-
-Proposed Power Rate Increase (Re- port)
Comparison of Energy Use in Pire Fed- eral Office Buildings (Report) Consolidated Financial Statement of
the Pederal Columbia River Power System
Cartaliment of Electric Power Service by the Teasessee Valley Authority (Report)
Electric Power Puel and Environmental

Energy Conservation in Pederal Office	
Bulldings in California (Report)	

365	ment of Definite Activities from the Millistry Goten Terminal, Breoklyn, New York, to Eaytense, New Jeney
429	(Repart) Information on Selected Aspects of the
391	Power Operations of Teasessoc Vel- ley Authority (Report)
082	The Liquid Metal Fast Breader Reactor Promites and Uncertainston (Shq)' study!
	Monthly Energy Review
393	Pacific Northwest Hydro-Thermel Power Program-A Respond Ag-
395	preach to Meeting Electric Power Re- quaraments (Report)
390	Planning and Billing System
389	Power Pieter Requirements Imposed by Poderal Power-Marketing Agen- ous on their Castorners (Letter)
215	Power Flow Program
381	Power Production at Pederal Dams Could Be Increased by Medernizing Turbanes and Generators (Report)
392	Problems in Identifying, Developing, and Using Geethennial Resources (Papert)
310	Proposed Power Rate Increase of the
396	Bureau of Roolamation's Central Vol- ley Propet (Tenneogo)
	Repayment Requirements of the Fed-
	oral Investment in the Teconesace Val- ley Authority's Electric Power
255	System (Appart)
237	Requested Unity Rate increase by the Poteman Bincess Power Company (Report)
235	Selected Aspects of Nuclear Power- plant Reliability and Economics (Re- part)
441	Southeastern Podeval Power Program- -Protocal Management and Program Operations (Report) Special Reports Issued by the FPC and Pedgeal Power Corresponder Publics-
	0.045
238	Status of Pederal and Private Research and Development Efforts to Conserve Esergy by Reducing Electric Power Transmission Losses (Steff analy) Status of the Crand Coulor-Raver
	Transmission Line Propost (Report)
275	Ways in Which Department of Housing and Urban Development Can Pro-
054	mote Energy Conservation (Report)
404	Electric Power Custellinent Custellinest of Electric Power Service
156	by the Terressnes Valley Authority (Report)
017	Electric Powered Vehicles Potestial for Using Electric Vehicles on
274	Pederal Installations (Report)
117	Electric Power Generation Beergy Efficiency of Number and Con- ventional Paris Used to Produce
405	Bleotricity (Report) Podotal Hydroelectric Plants Can In-
002	crease Power Sales (Report)

The Energy Impact of Moving Depart-

Hydro and Electric Recurring Data Re-	405
Hydroelectric Power Resources of the United States (HPR)	407
Library of Executed Electric Power Contracts	334
Openning Cost and Enveronmental Radiation Monitoring at the Ship- propert Alorne Power Station (Re- nord)	0.12
Plase Operation and Power Schedul-	335
Power Surveys and Systems Evalua- tion	409
Problems in Identifying, Developing, and Using Coothermal Resources (Report)	199
Real-Time Operations, Dispatch and Scheduling (RODS)	337
Revenues and Costs Allocated to Power Operations at Multiple-Parpene Pro- jorss in the Southwavers Pederal	
Power System (Report) Status of Federal and Private Research and Development Efforts to Consorve Energy by Reducing Electric Power	095
Transmission Lossos (Staff maly) Soparvisory Crotrol and Data Acquisi-	625
tion System (SCADA)	339
Electric Powerplants	
Bulk Electric Power System Relabel-	404
Ecological Sciences Information Centor (ESIC)	445
Power Surveys and Systems Evalua- tion	439
Report on Reprogramming Action for the Nuclear Materials Program	314
Reports of Cests of Certain Structures on Nongovernment Waters	298
Electric Power Production Power Production of Pederal Dama Could Be Increased by Medernizing Turbases and Generators (Apport)	215
Electric Power Reserves Federal Hydroelectric Piess Can In- crease Power Sales (Super)	201
Electric Power Tronamission Status of Federal and Provice Research and Development Education to Conserve Energy by Rodacing Electric Power Transmission Losses (Staff andy)	025
Electric Utilities Access of the Federal Power Commis- size to Basets of Reclassifier Re- eards to Insure Compliance with the Poderal Power Act (Lawe) California's Commi Valley Project- -Proposed Power Rock Intension (Re-	163
port) Corporate, Pirazeial, and Beenomia In-	156
fermation File (R18CBID) Electrical Pinancial Porecasting Model	402
(ISB Model, EUFINANCE)	377

Electric Utilities

Electric Rate Demonstration Data Sys- tem	346
Energy Conservation Providers En- enuraged by States (Report)	006
An Switzstion of the Federal Power Commission's Rulessiung on Uni-	
tiets' Construction Work in Progress (Report)	229
The Federal Interne Taxes of Class A and B Electric Unities (Report)	185
Information on Selected Asperts of the Power Operations of Tenotstee Val- ley Authonity (Report)	167
Management Interovenzeta Needed in the Federal Power Commission's Processing of Electro-Rate-Internate	
Cases (Report)	153
Official FPC Pyles and Recerch Operating Cost and Environmental Reductors Monstoring at the Step- pingport Atomic Power Studies (Re-	401
part)	042
Peello Northwest Hydro-Thermal Powe Program-A Regional Ap- proach to Meeting Electric Power Re- quirements (Report)	161
Proposed Power Rate Increate of the Bareau of Reclamation's Control Val-	
toy Project (Testimony)	101
Reactor Information File Sequences Nuclear Plant (Staff study)	427
Short Term Cosl Damand Personning Model	376
Southeastern Federal Power Program- Financial Management and Program Operations (Report)	174
Status of the Grand Coulee-Rover Transmission Line Preject (Report)	184
Survey of Foderal and Electric Unity Procurements of Power Equipment (Report)	142
Electric Utility Rufes Caldomia's Central Valley Project- Proposed Figure Rote Income (Re-	
port) Electric Rate Demonstration Data Sys- tem	156
Electric Regulatory Activities	406
Hydro and Electric Recurding Claim Re- ports	406
Requested Utility Rate Increase by the Potomac Electric Power Company	
(Report) Revenues and Casts Allocated to Power Communes as Midtalle Payment Re-	127
Operators at Moltple-Parpose Pre- jects in the Southwestern Federal Power System (Report)	096
Electrification Power Production at Poderal Dama Could Be Increased by Modernining Terbrane and Concestors (Repart)	205
Elk Hills (CA) Masagement of and Plans for the Naval Petroleum Reports (Report)	227
Emborgo The Administration of the Patroleum Soc-Ande Program by State Barryy Offices (Report)	122

5	Emorgencies	
	Need for Improving the Regulation of the Natural Oca Industry and Mon-	
	agement of Internal Operational (Re-	
	part	113
	Problems in the Federal Energy Office's	
	Implementation of Emergency Pe- troleum Allocation Programs at Re-	
	storal and State Levels (Report)	108
5		
	Emergency Gos Soles	
,	Actors Takes by the Poderal Power	
	Commission on Prior Recotanceda- tions Concerning Regulation of the	
	Natural Gas Industry and Managa-	
	ment of Internal Operations (Report)	140
1	Need for the Federal Power Commun-	
	sion to Improvo the Regulation of the Natural Gas industry and Manage-	
	ment of its internal Operations (Tar-	
	Almanyi	114
•		
	Emergency Oll Supply	
	The Admentitution of the Petreleum	
	Sex-Aside Program by State Energy Offices (Report)	122
	Capability of the Naval Petroleum and	
	Oll Shale Reserves to Meet Entr-	
7	gency Oil Needs (Report)	072
3	Capability of the Naval Potoleum and Gil Shyle Reservus to Meet Enter-	
	gracy Oli Needs (Tatinopi	073
	Eninest Demain	
•	All Parchases and Condemnsion Pro-	
4	ceedings Regarding the Naval Pe- trelears and Od Shele Reserves	940
	totiques and Col Shale Reserves	259
•	Emissions Deal Fuel Program (Report)	001
	Energy Data System (#DS)	
		341
		341
5	Employees Suffice of Extend Proper Administra-	341
	Staffing of Foderal Energy Administra- tion's Office of Committations and	
5		541
5	Staffing of Foderal Energy Administra- tion's Office of Committations and	
5	Soffing of Fodemi Reenty Administra- tion's Office of Communications and Public Affairs (Report) Employue Terminations	
5	Soffing of Polemi Recrys Administra- tiechs Office of Commissionless and Public Affairs (Report) Employues Terminablens Federal Exercy Administration Perso-	164
5	Soffing of Fodemi Reenty Administra- tion's Office of Communications and Public Affairs (Report) Employue Terminations	
5	Soffing of Polemi Recrys Administra- tiechs Office of Commissionless and Public Affairs (Report) Employues Terminablens Federal Exercy Administration Perso-	164
5	Soffing of Foderal Reary Administra- tion's Office of Communications and Public Affains (Report) Employment Promotions Program Perform Langery Administrations Program of Transver Rasia (Report) Employment Practices	164
5	Soffing of Foderal Borry Administra- tion's Office of Centramonidous and Public Affairs (Report) Employues Technicalians Potenti Europy Administration Penno- nel Transver Ratio, (Report) Employment Practices Poderal Report Administrator Penno-	164
5	Soffing of Foderal Reary Administra- tion's Office of Communications and Public Affains (Report) Employment Promotions Program Perform Langery Administrations Program of Transver Rasia (Report) Employment Practices	164
5	Softing of Foderal Bergy Administra- tion's Office of Communications and Petitic Allian (Rayor) Photon Eurogy Administration Prozen- ed Tansive Rans (Rayor) Esployment Practices Pedrati Eurogy Administrates Prozen- sel Tansow, Rans (Rayor)	164
5	Soffing of Foderal Record Advances faces: Other of Commentations and Podio: Advance dispersion Poderal Exercise Advances Poderal Exercise Advances of Transver Rains (Report) Employment Practices Robust Exercises Fortensis Exercises Robust Practices Robust Pract	164
5 5 7	Softing of Foderal Bergy Administra- tion's Office of Communications and Petitic Allian (Rayor) Photon Eurogy Administration Prozen- ed Tansive Rans (Rayor) Esployment Practices Pedrati Eurogy Administrates Prozen- sel Tansow, Rans (Rayor)	164
5	Soffig of Fohm Deery Advances- tions Office decommonline and back Advance Append Desires Advance Append Desires Teacher Advances Advances Professional Deery Advances Advances Market Deery Advances Prost- ed Tauerer Rain (Royel Employment Percenters) Description (Royel Decomposition (Royel Employment Percenters) Description (Royel Decomposition (Royel Decomposition (Royel Decomposition (Royel Decomposition (Royel Decomposition (Royel Decomposition (Royel Decomposition (Royel Decomposition (Royel Decomposition	144 181
5 5 7	Soffig of Folders Berry Advances- index a Children Berry Holds Allen Berry Berlyns Fandesstene Pielen Berry Advakantee Berlyns Fandesstene Berlyns Berlyns Berlyns Berlyns Berlyns Berlyns Berry Berlyns Berly	144 181
5 5 7	Soffig of Defect Berry Advances- index and the second seco	144 181
5 5 7	Soffig of Folders Berry Advances- index a Children Berry Holds Allen Berry Berlyns Fandesstene Pielen Berry Advakantee Berlyns Fandesstene Berlyns Berlyns Berlyns Berlyns Berlyns Berlyns Berry Berlyns Berly	144 181
5 5 7	India of Adual Barry Adamson Math Adha Barri Shala Adha Barri Shala Adha Barri Shala Barry Adalastica Barry Barry Barry Shala Sarry Adalastica Shala Sarry Adalastica Patro Paner Jones Ala Posta Sarry Adalastica Patro Paner Jones Ala Posta Sarry Adalastica Posta Sarry Adalast	164 181 191 404 296
5 5 7	India of Adual Bary Administration bala Adua Marine and Administration bala Adua Marine and Administration India and Administration Protec- and Towner Restan Restar House Restar Administration Protec- tion Towner Restar Restar Administration Protection Restar Administration Protection Restar Administration Protection Restar Administration Protection Restar Administration Protection Restar Administration Protection Restar Rest	194 191 191
5 5 7	Indiag of Adual Barry Administration That Adual Adual Aduation of Adual Mark Adual Adual Adual Party of Adual Adual Adual Indiana Adual Ad	164 181 191 404 296
5 5 7	heffig of Adult Bary Adminish Madi Adda Adult Adult Adult Adult Adult Madi Adda Adult Adult Adult Adult Adult Madi Adult Adult Adult Adult Adult Adult Maria Espatishi Adult Adult Adult Adult Adult Maria Adult Adult Adult Adult Adult Adult Maria Adult Adult Adult Adult Adult Adult Maria Adult Adu	164 181 191 404 796

Energy Abeliates for Peboy Analysis	
(EAPA)	441
Energy Data System (EDS) Energy Plims Distribution	54) 424
Energy Policy Devisionmaking, Organ-	444
inston, and National Brergy Geals	
(Report)	193
Energy Resource Data Systems	328
EROA Headquarters Technical Li-	
peary	433
FEA Data Distionary	360
Federal Energy Information Locator System (FEILS)	366
Possil Energy Update	406
FPC Library	-418
Imprived Polagacy and Procedures for the	
Explocaton and Development of Outer	232
Continental Shell Resources (Resources) Improvements Needed in Controls and	232
Accounting for Ground Vehicle Pr-	
troleum (Report)	015
Improvements Needed in the Federal	
Enhanced Oil and Gas Rocovery Re- gearch, Development, and Demon-	
stration Program (Report)	123
Information Contre for Energy Safety	120
(ICBS)	433
issues Needing Attontion in Develop-	
ing the Strategic Petroleum Reserve (Report)	090
Market Skerce System	370
Mining Research	323
National Energy Information Center (NEIC)	367
Official PPC Piles and Records	401
On Conservation and Intervation	
(Speech)	029
Opportunities to Itspueve Planning for	
Solar Energy Research and Develop- ment (Report)	202
RECON (REmote CONsole)	440
Technical Books and Monographs	442
1002000 BOOM and House strengt strengt	
Energy Conservation	
Alternative Energy Proposals (Ter-	
alexcep)	165
Alternative Energy Proposals Devo- losed by the Onnersl Accounting Of-	
fice in Response to Congressional	
Inquiries: Proposals and Supporting	
Analyana (Tenhuong)	166
Alternative Fusik for Aviation (H.R. 12112) (Testeway)	154
America's Energy Patures (Sprech)	171
America's Energy Patters (Speed)	190
Analysis of the Energy, Eccoomic, and	

Budgetary Impacts of H.R. 6860 (Sieff study) 129 Automobile Classification Data Base 345 A Bill to Extend the Pederal Energy Administration Act of 1974 (Te-129 timety) Department of Commerce's "SavEn-ergy Citations" (Report) 024 The Department of Deforme's Constrvation of Potenliters (Report) 012 Economic Impleations of Current World Oil Prices (Staff study) 227 Efforts to Recourses Conservation is the Private Sector (Report) 009 Energy Conservation (Tentinsny) 015

Energy Digest SEPTEMBER 1977

Energy Conservation at Government	
Pield Installations: Progress and Problems (Report)	025
Energy Conservation Financing (Tes-	027
Energy Conservation in Federal Office Buildings in California (Report)	002
Energy Conservation Practices En- couraged by States (Report)	004
Energy Conservation Program at ".ve Government Contractors (Report)	000
Barrey Efficiency Pation of Window	
Air-Conditioners (Report) The Borry Impact of Maxing Depart-	008
ment of Defense Activities from the Military Ocean Terminal, Brooklyn, New York, to Enyonee, New Jersey	
(Report)	011
Energy Policy Decisionnaking, Organ- ization, and National Energy Goals	
(Report) Energy Reorganization Legulation	193
(Tenimany) Energy, the Bronemy and the Eudget	194
(Speeck) An Evaluation of Proposed Pederal As-	169
sistance for Financing Commerciali-	
Technologies (Repart)	151
An Evaluation of Proposed Federal As- sistance for Fituncing Constructuali- tation of Emergins Energy	
Technologies (Testimony)	152
Pederal lifforts to Conserve Energy (Report)	010
Pederal Efforts to Conserve Pael in the Movement of Men and Materials (Re-	
part) Federal Efforts to Improve the Pael	004
liconomy of New Automobiles (Re- part)	600
Pederal Energy Management Program Annual Report	293
Pature Energy Demand (Speech)	175
OAO's Energy Role (Speech)	177
How Pederal Agencies Can Conserve	
Utilities and Reduce their Cost (Re- port)	007
Utilities and Reduce their Cost (Re- port) How the Pederal Government Partici- pates in Activities Affecting the In-	007
Utilities and Reduce their Cost (Re- part) How the Pederal Government Partici- pates in Activities Affecting the In- ergy Resources of the United States	007
Utilities and Reduce their Cost (Ar- part) How the Pederal Government Partici- pates in Activities Affecting the In- ergy Resources of the United States (Arport) Immovements Needed in Costrols and	
Utilities and Reduce their Cost (Re- port) How the Pederal Government Partici- pates in Activities Affecting the Im- ergy Resources of the United States (Report) Improvements Needed in Controls and Accounting for Ground Vehicle Pe- trelears. (Report)	
Utilities and Reduce their Cost (År- per) How the Pederal Government Partici- parts in Activation Affecting the In- ergy Resources of the United States (Report) Improvements Needed in Costrol's and Accounting for Ground Vehicle Pe- troleum (Report) Infostrial Borrys Efficiency Program	015
Utilities and Roduce their Cost (Ar- port) How the Federal Government Partici- tion of the Federal Government Partici- tion (Control of the United States (Append) House (Control (Cont	095 018
Utilities and Reduce that focus (Ar- port) How the Pederal Government Partici- pages in Activity al Referat (at Be- trage Resources of the United States (Reporters) Network (Control States (Report) (Control States) (Report (Control States)) (Industrial Konzy Efficiency Program National Recry Policy: An Aganta for Analysis (Report National Ocean Fully) Study (Tra- thores)	095 018 226
Utilities and Reduce their Cost (Apper) per) How the Reducid Government Partici- nergy Records of the United States (Apper) Improvements Needed in Costribia and Accounting for Crossel Vehicle Pe- testens (Apper) Isoformia Norry Efficiency Pregram Naticeal Recept Policy: An Agentia for Anticeal Recept Policy: An Agentia for Agentia Policy: Agentia for Agentia Policy: Agentia Policy: Agentia Policy: Agentia For Agentia Policy: Agentia Policy: Agentia Policy: Agentia For Agentia Policy: Agentia Policy:	098 018 226 191 212
Utilities and Reduce that Cost (Ar- port) Bow the Pederal Government Parlia- puest in Activity Relating the Theorem Strees (Report) International Relation of the United Strees (Report) Internating For Ground Vehick Pa- testens (Report) Internating For Ground Vehick Pa- testens (Report) Internating Theory Parlians of Parama National Genery Paties: And Agenda for Maximum Street Paties Street Street Maximum Street Street Street Maximum Street Street Street Maximum Street Street Street Maximum Street Street Street Street Street Street Maximum Street Street Street Street Maximum Street Street Street Maximum Street Street Street Maximum Street	095 018 226 191 212 019
Utilities and Adoing so due Chair, Da- there has the food Chair Chair and the food has the food Chair Chair and the food the food of the food Statistics (and the food statistics) and the food statistics of the food statistics (and the food statistics) and the food statistics of the food statistics (and statistics) and the food statistics (b) Conserving and Inserving and Inserving and (b) Conserving and Inserving and Inserving and (b) Conserving and Inserving and	098 018 296 191 212 019 241
Unities and Radios duri Chai (Da Den de Fachel Concernense Partici- parte in Activities, Affecting & Bi- Radowi Rado	098 018 226 191 212 019 241 029
Utilise and Robiss duri Chai (Du Den Ver Fördel Grossmenns Pritria- pera in Activita, Alfreidig te Brug Partenni and Statistica and Statistica and Accounting the Grossmen Match and Accounting the Grossmen Match and Accounting and Counter Match Information and Statistica and Statistica and Information and Statistica and Statistica and Academia (Robert) National Const Policy Matth (Te- Manard Const Policy Match (Te- Match (Te- Matha)) (Te- Match (Te- Mat	098 018 296 191 212 019 241

	(Report)
002	Progress of Energy Conservation Pro- gram for Consumer Products Differ
006	Than Automobiles Project Conserve
008	Recycling of Materiala
008	Review of the Progress and Problems of Resource Recovery Since the Passage of the Resource Recovery Act of 1930 (Tealway)
	Review of Volantary Agreement and Plan of Action To Implement the In-
011	 Fan of Action To Important the In- ternational Energy Program Solid Waste Minagement, Colloction, Disposal, Resource Recovery, Resy-
193	cling Program States of Federal and Private Research
194	and Development Efforts to Conserve Energy by Reducing Electric Power Transmission Leases (Stoff multi)
169	Strategie Petroleum Reserve Pian
	Using Solid Wrate to Conserve Re- sources and to Creats Energy (Asperd
151	Ways in Which Department of Housing and Urban Development Can Pro- mote Energy Conservation (Report)
152	Which Alternative for Energy Policy/ (Speeck)
010	
	Energy Consumpties America's Energy Futures (Speech)
804	America's Energy Patarea (Spatch) Ecliforne Nuclear Plane (Staj) study)
	Constantion of Energy Use in Five Fed-
600	ecul Office Buildungs (Report)
000 293	eral Office Buildungs (Report) Comprehensive Human Resources
	enal Office Buildungs (Report) Comprehensive Human Resources Data System (CHRDS) The Scontrols and Environmental Im-
293	enal Office Bulduaga (Report) Ceerprobanaive Human Resources Data System (CHRDS) The Sconcerie and Zervicesmental In- pact of Network Gas Certainverse During the Where of 1975-76 (Par- functor)
293 175	enal Office Bulldurgn (Report) Comprehensive Human Resources Data System (CHRDS) The Scenenie and Zewirestmental Im- port of Network Gas Cartakinemia Daring the Winter of 1975-76 (Da-
293 175 177	enii Office Buldargi (Roport) Cereprobustow Hansan Restructur Data System (CHERD3) The Societar and Environmental In- pact of Natural Gan Certainmon During in & Watter of 1975-76 (Ta- monogo) Electric Atto Derecatinisien Data Sys- tem Energy Conservation (Tashway) Energy Conservation (Pashway) Energy Conservation (Pashway)
293 175 177 007	exis Office Billargin Gayert Competitional Human Restricted Data System (CERED) Dis Bostenic and Environmental Im- pact of Nintral Gas Creatiness Annual Competition of DisTal Com- toneyal Biotechic Xiti Demensionalise Data Sys- tem Results Construction (Intransv) Benerg Conservation in Petercal Disc Bollices in Oklahomist, How Mark Bollices Markada and Competition Data Artifician in Cellinal Dis- benerg Conservation in Petercal Disc Bollices (Moving Dema- ment of Disferent Artifician Horn Lis- Ner Verch, in Broycen, Ner Allery)
293 175 177 007 096	exi Office Billargh Geord Cereptonsiny Hearsa Restructure Josephane Hearsa Restructure Josephane Bornestereal Jose Daring the Watter of 1975-16 Che- restry Billette Rate Detection and Space International Control of Con- trol Control (Charlow Con- trol Control (Charlow Con- Bergy Construction (Parlow Con- Borling to Control (Charlow Con- mont of Defare Archivita From A Milling Deen Tranish, Reskyn, Olegord Defares, Charlow Con- Control (Charlow Control (Charlow Con- Man Control (Charlow Con- mont of Defare Archivita From A Milling Deen Tranish, Reskyn, Operation Science (Charlow Con- Control (Charlow Control (Charlow Con- trol (Charlow Con- trol (Charlow Control (Charlow Con- trol (Charlow Con-
293 175 177 007 096 018	 and Office Bulkarg, Support Comprohension Neuross Bernier Sterner, Sterner Sterner, Sterner Sterner, Sterner Sterner, Sterner Sterner, Sterner Sterner, Sterner Sterner, St
293 175 177 007 095 018 226	eni Citte HAArig Gayeri Comprehense Marca Barran Dire Scotteri and Environment and Marca Carrantena and Marca Carrantena Marca Carrantena Marca Carrantena Barray Cancervaine (Halway) Barry Cancervaine (Halway) Barry Cancervaine (Halway) Barry Cancervaine (Halway) Barry Cancervaine (Halway) Barry Cancervaine (Halway) Barry Cancervaine (Halway) Marca Carra (Halway) And Carra (Halway) And Carra (Halway) (Halway) And Carra (Halway) (Ha
293 175 177 007 095 018 226 191	mi Colle RADAT deprint Collegation of the Collegation of the Collegation Data System (Collegation) The Societaria and Environmental In- Data Societaria and Societaria (Collegation) Data
293 175 177 007 095 018 226 191 212	and Cotte RARAS deput Competences in the Deviacement in Competences in the Deviacement in the Inconstruct and Deviacement in Devia at Nature (1975) (Tabuse) Devia at Nature (1976) (Tabuse) Devia at Nature (1976) (Tabuse) Deviace in Nature (1
293 175 177 007 096 018 226 191 212 019	 a) Coll # RAAP, depriv a) Coll # RAAP, depriv b) Styper (CER) c) Styper (CER)
293 175 177 007 096 296 191 212 019 212	 a) COL BAAS, Garry a) COL BAAS, Garry b) Song Song COLORD b) Song Song COLORD b) Song Song COLORD c) Song Song CoL BAAS c) Song Song Song Song Song Song Song Song
293 175 177 007 098 296 191 212 019 212 019	a) COL BADAS (depr) Col BADAS (depr) Data System (COL BADAS) The Extra test in the Interactional Interaction of the Interactional Interaction (Colorador) Badas (Strate Descatational Data) Badas (Strate Descatational Data) Badas (Strate Descatational Data) Badas (Strate Data) Badas (

Fower Pactor Requirements Imposed by Federal Power-Marketing Agen-

ales on their Castomers (Lener)

we with the Castoners (Letter) Progress and Problems of the Gavern-ment's Utility Conservation Program (Report)

Energy	Demand
--------	--------

pates in Activities Affecting the En- ergy Resources of the United States	
(Report)	098
Hydro and Electric Recurring Data Re- ports	435
Implications of Desegulating the Price of Natural Out (Report)	135
Major Pael Zuming Installation-Batty	
Planning Process Identification (EPPE)	358
Major Puel Ferning Installations (MPED	356
Monthly Energy Review	251
National Ocean Policy Study (Ter- strong)	212
Potential for Using Electric Vehicles on Pederal Installations (Separt)	012
Power Factor Requirement, Imposed	02.4
by Pederal Power-Marketing Agen- cies on their Castomers (Letter)	204
Reverse of FPC and PEA Actions In As-	
seasing the Impact of Natural Gas Curtaliments during the Winter of	
1976-77 (Lenter) Statutucal Data on Petrolepus and Pe-	089
trolaum Products (Report)	079
Using Solid Waste to Conserve Re- sources and to Create Energy (Report)	
Which Alternative for Energy Policy?	013
(Speed)	168
Inergy Conversion	
ventional Facts Used to Produce Electricity (Report)	036
Evaluation of the Administration's Proposal for Government Assistance	
to Private Uranium Sarichaneat Orougs (Report)	154
Pederal Coal Research-Status and	
Problems to Be Reacted (Report) Opportunities for More Effective Use of	060
Animal Masure (Report) Plans for Construction of a Magnetohy-	416
drodynamics Test Facility in Mon-	
tana (Report) Status and Obstations to Commercializa-	666
tion of Cosl Loquefaction and Gasifi- cation (Report)	065
Energy Demand America's Energy Futures (Speech)	171
America's Energy Futures (Speech)	190
Beliefonte Nuclear Plant (Sraff study)	054
Certain Actions That Can Ee Taken to Help Improve This Nation's Unation	
Picture (Report)	061
Energy, the Economy and the Budget (Speech)	169
Future Energy Demand (Speech) International Energy Evatuation Sys-	175
tecn (UIIIS)	384
OECD Bretgy Destand Model	386
Regional Econometric Demand Model and Auto Simulation Model (RD4)	
Review of IPPC and FEA Actions in As-	315
sensing the Impact of Natural Gas Curtailments during the Winter of	
Curtainneria during the Wittiter of 1976-77 (Letter)	089
Role of Pederal Cost Resources is	

Meeting Emergy Goals Needs to be Determined and the Leasing Process	
Improved (Report) Short Term Patralean Damond Pare-	231
casting Model Which Alternative for Energy Policy?	383
(Speech)	168
Energy Efficiency Alternative Energy Proposels (Ten- amany)	165
Alternative Energy Proposals Devi- loped by the General Accounting Of- free in Response to Congressional Informers Proposals and Supporting Analysis of the Energy, Economic, and	155
Badgetary Impacts of HR 6860 (Stuff mark)	129
Orpariment of Commerce's "SavEn- orgy Castions" (Report)	024
Energy Conservation at Covernment Paid Installations Progress and Problems (Report)	026
Energy Efficiency of Nuclear and Con- versional Foels Used to Produce Electricity (Report)	036
Energy Efficiency Ration of Window An-Conditioners (Report)	005
National Standards Needed for Resi- dential Energy Conservation (Report)	019
inergy Facilities Report on Reprogenzeing Action for the Nuclear Materials Program	314
Orveloping and Commerculuing En- tryy Technology (Teamany)	142
Energy Conservation Parameters (Ter-	697
An Evaluation of Proposed Pederal As- sultance for Prospecing Commercial- ration of Emerging Energy Technologies (<i>Report</i>) An Evaluation of Proposed Pederal As-	151
sistence for Financing Commerciali- ation of Emerging Energy Technologies (Textenory)	192
Federal Coll Research-Status and Problems to Be Resolved (Report) Financing for Commercial-sized	090
Ormoraturiana of Energy Technolo- gins (Technology)	141
Financing Infrastructure in Boorgy Development Areas of the Western	
Status (Speech) Putten Structure of the Unselem En-	cen
richment industry (Teamond) The Logality of the Reported Use by the Energy Research and Development Administration of Certain Fould En-	637
ergy Fonds (Letter) Liquid Metal Fast Breeder Reactor	087
Program-Past, Present, and Future (Textimery)	0.45
Proposed Revisions to the Criteris and Contracts for Unsalam Barichment Services (Report)	997
U.S. Paraneoul Assistance in the Deva- legement of Poceign Nuclear Energy Programs (Report)	239
nergy Industries Notatsi Oss Company Operating Infor-	

Fuld Installations: Progress and Problems (Asport)
Energy Conservation Financing (Te-
Basegy Policy Decencermaking, Organ- ization, and National Energy Goals (Report)
Energy Reorganization Legislation (Tentenergy)
GAO's Eastgy Role (Speech)
Improved Policies and Procedures for the Exploration and Development of Outer ContacentalShell Resources (Pestroson)
Proposed Energy Inventory Act of 1974 (Letter)
Weys to Strangthen Congressional Con- trol of Energy Construction Projects Other Taxa Nuclear (Report)
Energy Management Department of Commerce's "SavEs- ergy Chalseen" (Report)
Energy Plonsing National Fam for Energy Research, Development, and Demonstratises Creating Energy Chesters for the Pa- ture
Planning and Silling System
Energy Policy
Accelerated Outer Continental Shelf Development (Termang)
Accelerated Oater Continental Shelf
Accelerated Outer Continental Shelf Development (Fortmany) Accelerated Outer Continental Shelf
Accelerated Over Consistential Start Development (Parmay) Academic Outer Contenenal Shell Development (Parmay) Artice Proposed Concerning Confloc of Internet Antheitstenen of Regulations for Ser- for Regularities, Meriley, and Reda- mation of Pablic and Indian Coal Lands (Peer)
Accelerated Over Continuous Stati Development (Parmay) Academic Optic Contenents Shell Development (Partissan) Artiss Propod Opcerning Confloc of Interest Administration of Republicions for Str- food Exploration, Mering, and Rech- motion of Public and Indian Coal
Accelerated Owner Continuum Stati Development (Cannous) Academic Content (Cannous) Academic Content (Cannous) Academic Content (Cannous) Academic Content (Cannous) Academic Content (Cannous) Academic Content (Cannous) Alternative Energy Proposala Deu- frong) Alternative Energy Proposala Deu- frong) Alternative Energy Proposala Deu- frong (Cannous) Academic Content Accentation For in Response to Compression Analysis (Cannous)
Accelerated Owner Continuum Swall Development (Carmona) Acceleration of Content Swall Acceleration of Content Content Action Proposed Consenting Content of Internet Administration of Regulations for Swall Marine of Natio end Indian Cont Lands of Phalic and Indian Cont Landson of Content Accounting Of Far is Regress to Congression Markyon (Carlteroug) Anatolan Tempy Patram Speech
Aricensond Own: Continuum Swift Development (Tennsou) Development (Tennsou) Arice Proposed Censening Cambra Arice Proposed Censening Cambra Marine Tenno Censening Cambra Marine Marine Marine and Barton Marine Marine Marine Marine Marine Marine Party Proposal Dev- mensou Anneals Design Proposal Development Information Design Proposal Default Proposal Conference on Research Design Proposal Marine Science Proposal Marine Party Protons (Speech American Design Privanes Gpeech
Arienteel Oue Contenued Built Developerd Transmal that Developerd Transmal that Developerse (Transma) Aritice Frozen Contenty Content of areas of the Particle Market and Fairle Con- tents of Pails and Fairle Con- tents and Pails and Pails Con- tents and Pails and Pails Con- tents and Pails and Pails of the strong Pails of the Pails (Pails Sciences) American Barry Papiers (Boost) American Barry Papiers (Boost) American Barry Paires (Boost) American Barry Paires (Boost) Andreis of the Theory, Seconds, and Barley M (Pails of the Theory, Seconds, and Barley M (Pails Con- tent States) (State States)
Accelerated Over Continuum Swift Development (Teamsay) AD - Ordepretes (Teamsay) Artice Proposed Consening Content of Intern Administration of Regulation for Syn- metric Content (Content of Internet Administration of Regulations for Syn- metric Content (Content) Administration of Regulations for Syn- metric Content (Content) Administration of Regulations (Team Internet) (Team) Administration (Content) For a Regulation (Content) Content) (Content) Administration (Cont

mation Pile

Energy Legislation Amendment of the Federal Energy Adminutration Act of 1974 and the Es-

Amant/

Natural Gas Industry Evaluation Systerms

Review of Voluntary Agreement and Plan of Action To Implement the In-

inessos of its Experison Date (Leary)

Analysis of the Energy, Economic, and Budgetary Impacts of H R 6860 (Nut/ muly)

A full to Extend the Federal Energy

Administration Act of 1974 (Tes-

ternational Energy Program

412

412

276

173

159

179

028

027

193

194 177 232

160

103

024

428 339

216

219

288

093 145

146 171 190

158

Subject Inde:	
---------------	--

A full to Extend the Podoral Energy Administration Act of 1974 (Ta- tereora)	179
Bodget History Tablos	317
Budgeting of Federal Financial Incon- tives for Energy Development (Tar-	
nmony) The Changing Role of the General Ac-	150
counting Office in Energy Informa- tion and Data Programs (Speech) Contenents on Selected Aspects of the	186
Administration's Proposal for Gov- organization of Proposal	
Unitered Exceloreet Groups (Aspect)	145
Comments on the Ecetyy Information Act. (Letter)	170
Comproheesive Human Resources Data System (CHR-OS)	355
Conservation Division Task Force Re- port on the Osshore Lease Macago- ment Program Study for the U.S.	
Ocological Survey Coupled Energy System - Economic	249
Models The Orpariment of Defense's Conser-	429
vation of Petrolosm (Report) Department of the Interior's Vanue of	012
Comments on Administration of Regulations for Surface Exploration.	
Mang, and Reelamation of Public and Indian Coal Lands (Report)	095
Development of the Oater Continental Shelf Possil Fuel Resources (Tep- anany)	215
Gynamic Input-Output Linear Pro- gramming Model for Regional En-	
ergy impact Analysis (GIOLP) The Economic Impact of Energy Ac-	391
tions	255
Effect and Operation of Interstate Com- peote Relating to Netural Gas	297
Effects to Encourage Conservation in the Private Sector (Report)	009
Employee Disclosures under the En- ergy Policy and Conservation Act	265
Energy Abstracts for Policy Analysis (EAPA)	441
Energy Conservation (Terrmony) Energy Conservation: Federal Energy	015
Management Program	292
Emergy Conservation Financing (Ta- rinony) Energy Conservation Practices En-	027
couraged by States (Repert) Energy Data Collection in the Pederal	055
Government (Tanimony) Energy Policy Decision making, Organ-	157
inition, and National Energy Goals (Report)	193
Energy Reorganization Legislation (Teathnorg)	194
An Bvaluation of Proposed Poderal As- sistance for Finencing Commercesh-	
zation of Emerging Boorgy Technologies (Report)	151
An Evaluation of Proposed Federal As- sistance for Financing Commercial-	
zation of Emerging Energy Technologies (Textinovy)	152
The Exportation of Coal (Report)	244
FEA Crate/Transportation Model Federal Biforts to Improve the Fuel	399
Economy of New Automobiles (Re- port)	33

Energy Digest SEPTEMBER 1977

Erderal Entry Administration Annual Report to the President and Con-200 Pederal Energy Guidebnes Weekly 282 The Federal Wind Boorgy Program (Re-234 cort) **Engential Disclosures by Etuniques** Performing Parctions under Entrav Petrov and Comercaning Art Prosping for Constitutional-street Demonstrations of Energy Technolo-141 Financing Infrastructure in Energy Development Areas of the Western States (Secech) Peani Energy Program Report 175 Peture Energy Demand (Speech) Here the Federal Grossmann Parties ontos in Activities Affecting the Energy Resources of the United States (Report) 098 Implications of Deregulating the Price of Natural Gas (Report) 125 imported Patience and Procedures for the Exploration and Development of Outer Conternal Self Boom of Loomed 232 improving the Operations of the Federal Energy Administration Region X Office (Report) Income Distribution Impact Medal 200 lases at Lesson the Atlantic Outer Continental Shelf (Testowove) 213 Issues Related to Posturo Sources of Oil for the United States (Report) 235 The Lorest Metal Fast Receder Reactor Program-Past, Present, and Future 045 (Report) Mojor Fuel Burning Installation-Early Panning Process Identification (8995) Major Page Burning Installations OMERD 200 Mining and Menerals Policy National Coal Model (RMAC) National Energy Policy: An Agenda for Analysis (Report) National Ocean Policy Study (Ter-212 timore) Nenonal Plan for Energy Research. Development and Demonstration Planning and Analysis National Pien for Energy Research, Development, and Demonstration Creating Energy Choices for the Pa-National Program for Solar Heating and Cooling National Standards Nopded for Repdential Energy Conservation (Report) 019 Nataral Gas Cartallesents Need for Interpring the Regulation of the Natural Gas Industry and Managainst of Internal Operations (Re-0000 Next for the Federal Power Controlssion to Evaluate the Effectiveness of the Natural Gas Curtailmont Policy (Report) Necclassical Regional Orowth and Energy Frice Model On Conservation and Innovation (Speech)

179

110

Onahore Lease Management Program Study for the U.S. Goological Survey	250
Opportunities for Improvements in Re- classing Stop-Mitred Lands under Coal Parchase Contracts (Report)	092
Outlook for Federal Goals to Acceler- ate Leasing of Oil and Ose Resources on the Outer Continental Shelf (Re-	
part) Power Surveys and Systems Draha-	214
ben Project ledeptodence Evaluation Sys-	409
tern (PIES)	381
Proposed Establishment of Juni Feder- al-Industry Nonexclear Corpora- tion	315
The Purchase of Short-Sepply, Energy- Related Items through the Esport-	
Import Bank of the United States (Report)	236
Regional Industrial Multiplier System (RIMS)	392
Report on ERDA's Numericar Actavi- tics	310
Report to the Pretadent by the Nuclear Regulatory Committion	318
Review of Average Fael Becelony Standards under Title V of Motor	
Vehicle Information and Cost Strongs Act	278
Review of the Redecal Energy Adminis- tration's Advascy Committees (Re-	
port)	183
Review of the 1974 Project Independ- ence Evaluation System (Report)	178
Somo-Beonernis Environmental Demo- graphic information System (SEE- DIS)	434
Status and Obstacles to Commitmatiza- tion of Coal Liquefaction and Gaufi- cation (Report)	085
Submuseco of U.S.S.R. Energy-Related Transactions for Congressional Re- view	280
A Summary of European Views on Do- pendency of the Pres World on Mid-	
die East Oil (Report) Sarvey of Publications on Exploration,	234
Development and Delivery of Ales- kan Dil Market (Report)	169
U.S. Financial Assistance in the Deve- lopesent of Pureign Nuclear Energy	
Potgrama (Report)	239
Energy Policy Project America's Energy Fotures (Speech)	171
National Opean Policy Study (Ten-	212
Energy Prices Coal Data Base	373
Cost and Prining System Crude OII and Natural Oss Production	374
Model	396
Crude OII Estitionents (Equaliza- tion)	355
Crude Oil Pirst Purchaser	355
Crude Oil Pricing Model (DCROPS) Electric Power Fuel and Environmental	
Analyses Biostric Rate Demonstration Data Sys-	405
teer	346

	An Evaluation of the Foderal Power Commission's Raleunaking on Utili- ties' Construction Work in Program	
	(Asport)	229
	Excerption of a Refined Petroleum Pro- duct from the Mandatory Petroleum	291
	Allocaton and Price Regulations PEA Househald Energy Expenditure Model (HEEM)	393
	Fiscal Impact of Energy Price Changes on State and Local Government Per-	
	chases of Goods and Services Meddle Distillate Price Montaoling Sys-	395
	tem Natural Gas Regulations System (Pre-	30
	dater Rise) Natural Gas Regulation System (Prpe-	414
	ine Row)	416
	Neoelassical Regional Growth and En- ergy Price Model	339
	Project Independence Evaluation Sys- tem (PIES)	381
	Refinery Cost Passibreugh Survey of Dublications on Exploration,	348
	Development and Delowry of Alas- kan Oil Market (Report)	189
	Energy Programs Redenal Assistance to State and Local Governments in Developing and Ad-	
	ministering Energy Programs (Report)	143
	National Plan for Energy Research, Development, and Demonstrations	
	Creating Energy Chosess for the Fa- ture	-01
	Energy Recovery from Waste	
	Rocycling of Materials Solid Waste Management, Collection,	240
,	Disposal, Researce Recovery, Recy-	257
	Eeorgy Research Activities of Each Geothernsal Demon-	
	stration Propert Autorities of Solar Energy Coordination	107
2	and Management Project Applyities of the Geothermal Coordina-	302
,	tion and Management Project	505
	Budgetung of Federal Financial Incon- tives for Energy Development (Ter-	150
	Ownerst Center for Energy Studies (CES)	443
2	Consents on N.R. 11212, 93rd Con- gonia, a Bill to Further Research, De-	
	velopment, and Commercial Demonstrations to Geothermal En-	
3	ergy (Lenn) Development of Interagency Relation-	196
4	abipa in the Regulation of Nuclear Materials and Pacifikies (Report)	055
8	Easrgy Abstracts for Policy Analysis (EAPA)	441
2	Energy Information Reported to Con-	-
,	gress as Required by Public Law 93- 319	283

- Energy Research, Development, and Demonstration Investory 40 Environmental Resource Center
 - (FRC) 48

Energy Digest SEPTEMBER 1977

Energy Research

ERDA Energy Research Abstracts (ERA)	44
An Braitation of Proposed Federal As- sistence for Financing Commerculu- ration of Emerging Rengy	
Technologies (Report) An Erstuntum of Proposed Pederal As-	151
sistence for Pinancing Commercial- zation of Emerging Energy Technologics (Textmony)	152
Federal Coal ResearchStatus and Problems to Be Resolved (Report)	080
The Federal Wind Energy Program (Re- port)	206
Financial Report on the Ocothermal Resources Development Fund	309
Pinteoing Infrastructure in Energy Development Areas of the Western States (Speech)	681
How Solar Energy Was Treated in the AEC Chairman's Report, "The Na- tion's Energy Ferane" (Report)	175
Improvements Needed in the Federal Estimated Oil and Gas Receivery Re- search, Development, and Demon- stration Program (Report)	155
International Cooperation in Energy Research and Development (Teo-	
Amergy) Management and Funding Aspects of Three Normeclear Energy Research,	245
Development, and Demonstration Subprograms (Report)	203
On Conservation and Innovation (Speeck)	029
Project Operations System (POS)	361
Proposed Establishment of Joint Feder- al-Industry Neuroscient Corpor- tion	315
Report by the U.S. Energy Research and Development Administration: Status of Countraction Property and	
Other Data	313
Report on Activity and Program Index of the Energy Research and Develop- ment Administratory Status of Car-	
struction Projects and other Data	312
Report on Past Flow Test Facility Report on the Status of Melor Con-	301
struction Projects Experiencing Sig- nificant Variances	300
Review of Selected Federal and Private Solar Energy Activities (Report)	197
Solar Energy Update	437
Technooal Information Center (TIC)	439
Ways to Strengthen Congressional Con-	
trol of Energy Construction Projects Other Thus Nuclear (Report)	192
Energy Resources	

Pinancing Infrastructure in Energy Development Aceas of the Western States (Speech)
How the Federal Ocvernment Partici- putes in Activities Affecting the En- tricy Resources of the United States (Report)
Proposed Energy Investory Act of 1974 (Lense)

Energy Shorteges

Pederal	Efforts	60	Interove	the	Puel
Boone	my of 1	Ves	Automa	tiles	(Ar-
pord					

The Federal Energy Administration Quarterly Report on Private Oriev-	
ances and Redress	284
Natural Oas Contailmenta	357
Natural Gas Shortage Model	382

Energy Storega Site Distribution Model

Energy Supplies	
Alternative Parls for Available (H.R. 12112) (Testmand	154
Cosl Data Base	373
Coupled Energy System - Economic	3/3
Models	427
Crude Oil and Natural Gas Production	
Model	398
Crude Oil Pricing Medel (DCROPS)	
Demotic Energy Resource and Re-	397
serve Estimates-Uses, Limitations,	
and Needed Osta (Report)	233
PEA Crude/Transportation Model	399
The Federal Wind Energy Program (Re-	
part)	206
Ges Supply Inducators	403
International Coal Supply Model	387
Intensitional Reergy Evaluation Sys- tem (IEES)	384
International Oil Supply Model	385
Issues Nording Attention in Develop- ing the Strategic Petroleum Reserve	
(Report)	090
Mining and Minarals Policy National Coal Model (RMAC)	267
Oil and Gas Reserver System	379 372
Oil and Gas Seenly Model	378
Project Independence Evaluation Sys-	3/6
ten (PIES)	381
Reserves Allocation and Mane Cost	
Model (RAMC)	360
Review of PPC and FEA Actions in As- sessing the Impact of Natural Gas	
Contailments during the Winter of	
1976-77 (Letter)	089
Strategic Petroleum Reserves Program-	
Wade System (SPR)	363
Subpart L	369
Servey of Publications on Exploration, Development and Delivery of Alas-	
kan Oli Market (Report)	189
Underground Gas Storage System	371
Energy Supply	

inargy Supply	
Alternative Energy Peoposals Deve-	
loped by the General Accounting Of-	
fice in Response to Congressional	
Inquiries: Proposals and Supporting	
Analyses (Technole)	166
America's Bacrgy Patares (Speech)	171
America's Energy Patores (Speech)	190
Capability of the Naval Potosloum and OU Shale Reserves to Meet Free-	
genery Od Needs (Report)	072
Capability of the Navel Potesietan and Oil Shale Reserves to Meet Easer- gency Oil Needs (Teniouns)	073
Certain Actions That Can Be Taken to Help Improve This Nation's Urgeton	
Ficture (Report)	661

Sub	lect	Index
-----	------	-------

Curtailment of Electric Power Service by the Tennessee Valley Authority (Report)	112
Developing and Commercializing En-	
ergy Technology (Textmony) The Economic and Environmental Im- pact of Natural Gas Curtailments dur-	145
ing the Winter of 1975-76 (Report) The Economic and Rovironmental im-	682
pest of Natural Gas Cortalinents During the Witter of 1975-76 (Tes- theory)	083
Efforts to Develop Two Notleer Con- opps That Coald Greatly Improve This Country's Paure Energy Situa-	001
tion (Report) Energy, the Beamony and the Badget	048
(Spech) The Espartition of Coal (Report)	169
Pedarati Coal Research-Status and	244
Problems to Be Resolved (Report) Federal Beergy Admonstration Efforts to Aurilt Pael Ori Supplies of Major Utility Companies (Project Utility)	090
(Report)	126
Pollowup Roview of the Nevel Pe- troleum Reserves (Report)	220
Future Energy Demand (Speech) How Solar Energy Was Trusted in the AEC Chairman's Report. "The Na-	175
AEC Chairman's Report, "The Na- tion's Energy Pature" (Report) Implications of Doregulating the Price	198
of Natural Gas (Report)	135
The Implications of Deregalating the Price of Natural Gas (Tentheory)	136
Issues Related to Foreign Sources of Oil for the United States (Report)	235
Legality of Administration Actions in Printing and Storing Cas Compous (Lenue)	104
Legelity of Printing Gasoline Rationing Coupons by Federal Energy Adminis- tration (Letter)	103
Management and Funding Aspects of Three Nemaultar Energy Research, Development, and Descantration	
Subprograms (Report) Management of the Atomic Energy	203
Commission's Controlled Thermoni- oleer Research Program (Report)	185
Natural Gas Shretage: The Role of Im- ported Laquefied Natural Oas (Report)	
Outer Continental Shelf Dil and Gas Development: Improvements Needed	241
in Dotermating Where to Lease and at What Dollar Value (Report)	218
Problems in the Federal Energy Office's Implementation of Emergency Pe- troleus: Allocation Programs at Re-	*10
	108
Progress and Problems in Developing Nuclear and Other Experimental Techniques for Recovering Nateral Oas in the Rocky Monnain Area (Re-	
port/ Restint and Coordination of Natural	077
Ges Reserve Data (Report) Review of Complaints Concorning the	078
Mandatory Petroleum Allocation Program and the Regulation of Pe- troleum Priolog (Report)	102
Role of Federal Coal Resources in Meeting Energy Goals Needs to be Detormined and the Leasing Process	
Improved (Report)	235

Subject Index

Sitistual Data on Patroleum and Pe- celeum Products (Rayord) A Summury of European Viova on De- pendency of the Prec World on Mid- de East OJ. (Rayord) Tonas-Askids Oli Ppeties-Progress of Constantions through Neurosci Hospita Visitish Attenative Sor Esergy Policy? (Speed)
Energy Utilizofion Energy Conservation, at Government Fuld Installations Progress and Problems (Report)
Enforcement The Pederal Energy Administration's Compliance and Enforcement Pro- cesses (Tearmong)
Engineering Liquid. Muil Fast Breader Restor Pack-Chading. Information Coster (LMF23) Information Control (LMF2) Information (LMF2) Report by the US Energy Research and Development Administration Cost of the Energy Research and Develop- net Administration Development of the Energy Research and Develop- net Administration Status of Cos- nitration Parage and Other Data
Englisos Dual Poci Program (Report)
Entroinment Ecological Sciences Information Center (ESIC)
Environment Enrryy Dets Systom (EDS) Trans-Alasia Oil Popelise-Progress of Centruston through November 1975 (Report)
Environmental Assessment Administration of Stagloblens for Sur- face Daysiance, Norma, and Evaluation Ecologies Starty, System - Esconnis Models Depentance of the Intervir's View of Depentance of the Intervir's View of Depentance of the Intervir's View of Depentance of the Intervir's View Models Mod
Analyses Environmental Resource Center (ERC) National Geothermal Information Re- atorne (GRID)

	tion of Nuclear Powerplants (Report)
125	
	Environmentel Hacith Zoriconnerial Information Anthyle Center (EIAC) Ranimenosial Reserve Center
50	(ERC)
38	
	Environmental Import
113	Department of the interior's Proce- dures for Approving Coal Mining Plans (Report)
112	The Economic and Enverynmental Im- pact of National Gas Carta/menta der- ing the Winter of 1975-76 (Report) The Louist Montel Part Tecodor Resolu-
	Promises and Uncertainings (Stuff and)) Neurasi Ocean Policy Study (Tra-
001	among/ Nocime Regulatory Commission's Pro-
145	gram for Evidenting Environmental Impacts of Construction and Oper- tation of Naulissi Powerplants (Report) Reports of the Work Group on OCS Safety and Polistics Control
141	
184	Breinsamentel Policy The Courol Zoso Mesegement Pro- gram: An Unitethin Putare (Report)
	Environmentel Protection Administration of Regulations for Sur- face Exploration, Mining, and Reck-

mation of Public and Indian Cost

Comments on Administration of Regulations for Surface Exploratore, Minuta, and Beclamston of Public and Itdian Cosi Lands (Report)

Federal Coel Resourch-Status and

Problems to Be Resolved (Report) Further Action Needed on Recommen-

dations for Improving the Adminis-tration of Feferal Cosi-Leasing

pates in Activities Affecting the Encray Resources of the United States

Progetten (Report) How the Pederal Government Partici

agens

Report on ZRDA's Noncrotical Activities

Report on the Status of Marte Construction Projects Experiencing Say-

graphic Information System (SEE-

Supposing and Land Reclamation in-

grom for Evaluating Environmental Imports of Construction and Opera-

silicent Verignoes Socio-Economic Revutormental Domo

Environmental Criteria Department of the Interior's Procedares for Approving Coal Mining

234

084 015

148 Scritterion System

022 Plats (Report) Nation Regulatory Commission's Pro-

093 Lands (Report) Department of the Interior's Views of

429

095

440

405

40

451

330

~

415

8

44

443

C62

041

212

661

263

182

Improved Inspector and Regulation Cosid Reduce the Possibility of Oil- spills on the Outer Centineptal Shelf (Resert)	100
National Beergy Policy: An Agenda for Analysis (Report)	191
Natural Gas Shortage: The Role of Ico- ported Legacited Natural Gas (Report)	
	241
Nevada Applied Ecology Information Captor	452
Nuclear Regulatory Commission's Pro- gram for Dobating Betritonmental Impacts of Construction and Opera- tion of Nuclear Proceepiants (Report)	051
Opportunities for tespoevements in Re- claiming Strip-Minod Latch under	
Coal Funchate Contracts (Report)	093
Problems Caused by Coal Masing Near Federal Reservoy: Projects (Report)	075
Problems Caused by Ceel Mining Near Pederal Reserver Projects (Ter-	
(annual)	0.74

Recycling of Materials Resource Recovery and Source Reduc-271 Role of the International Atomic Reergy Agency in Safeguarding Nuclear Material (Report) Solid Waste Management, Collection, Disposel, Rescurce Recovery, Rocachag Program 25 Traza-Alaska Dé Pipelane-Progress of Construction through Nevernber 1975 (Report) 68.

Equipment Drilling Enurgement Production Sur-339 Energy Research and Development Administration's Contingency Plan for More Enrichment Capacity at Portunetsth, OH (Report Power Producting at Pedecel Dama Could Bo Increased by Modernizurg Turbings and Generators (Report) 205 Survey of Federal and Electric Unlity Propertments of Pewer Newtonent (Report) 143 U.S. Financial Assistance is the Davelopenent of Forcegn Neolear Energy Programs (Report) 216

	Erosion Problems Caused by Cosl Mining Near Podersi Reservoor Projects (Ter- tiesty)	076
092		
	Furnite	
	Allecation of Usanium Benchmani Ser- vices to Fuel Porcuga and Domentic Nuclear Rescares (Report)	228
095		***
060	A Summery of European Views on De- pendency of the Piece World on Mid- ele. Bast Ol. (Report)	22.4
	at an or paper	
217	European Altonic Energy	
	Community	
	U.S Pinencial Assistance in the Deve-	

to Nuclear En Programs (Report) (pt) 225

Energy Digest SEPTEMBER 1977

European Atomic Energy Community

U.S. International Nuclear Saleguards Bights Are They Seng Effectively Excessed" (Unclassified Digest) (Re- port)	24
Evaluation Energy Conservation Practices En- couraged by States (Regord) Need for the Pederal Pawer Conserv- nees to Xvalues the Effectiveness of the Natural days Considered Folicy	006
(Report) Procedures for Evaluating Reasonable-	130
ness of Petroleum Pipeline Rates Need laugurawing (Report) The Reactor Inspection Program of the	094
Atomic Energy Commission (Repart)	631
Renow of the 1974 Project Independ- ence Realization System (Report)	78
Executive Agencies Energy Conservation Pederal Kontgy Management Program	292
Energy Policy Decisionariang, Organ- ization, and National Energy Opais (Report)	193
Federal Energy Conservation Perfor- mande System	34
Pederal Energy Management Program Annual Report U.S. Notekar Nee-Preliferation Pelicy	293
(Report)	248
Executive Reorganization Actions Neefed to Improve Federal Ef- ferts in Collecting, Analyzing, and Reporting Energy Data (Report)	159
A full to Extend the Federal Energy Administration Act of 1974 (Tap-	
nmony) Energy Conservation Financing (Tai- amony)	027
The Energy Information Act, S 1864 (Testimony)	176
Energy Policy Decisioneraking, Organ- izuiton, and Nanoval Energy Gaula (Aspert)	193
Entry Reorganization Legislation (Tenamorg)	194
xplaration	
Accelerated Cuter Continental Shelf Development (Testimong) Accelerated Outer Continental Shelf	216
Development (Tertimeng) Alternative Entry Propents (Ter-	219
Amongy Exclored on of Namenal Perpeteum Re-) 4 5
serve in Aleska	270

Followup Review of the Naval Pe-	
troleum Reserves (Report)	
Improved Policies and Procedures for the	
Exploration and Development of Ower	
Control Shell Researces (Teastony)	

Leasing of Materials on Public Landa (Report)

Management of and Plans for the Naval Petroleum Reserves (Report)

Cutse Coninental Shelf Sale #35. Problems Selecting and Evaluating Land to Lesse (Report) Outlock for Federal Gools to Anonierste Leaveg of Ol and Gas Resources on the Oater Centisental Shell (Report) Progress and Problem in Developing Nuclear and Other Experimental Technogen for Recovering Naturell Oats at the Rocky Metericals Area (Re-

214

677

271

05

22

æ

24

141

140

porti Propress of and Future Plans for Explorences of National Petroletem Reserve in Aleska

Experts

Alternor of Unevan Erschment Services to Fiel Foreign and Domestie Naclear Rescient (Report)

Certain Actors That Can Be Taken to Help Improve This Nance's Unterium Petare (Aspon)

Development of Interspetty Relationships in the Regulation of Nuclear Maturals and Pacificus (Report)

Ecostenic Implantions of Carriert World Oil Prices (Shaff multi

- Natural Gas Company Operating Infermation 744
- The Purchase of Sheen-Supply, Rangg-Related home through the Export-Import Bank of the United States (Reserv)
- Submission of U.S.S.R. Energy-Related Transactions for Congruintional Reverse
- U.S. Financial Associate in the Developinest of Foreign Nutlear Energy Programs (Report)
- U.S. International Nuclear Safeguards Rights: Are They Bring Effectively Extremed? (Unclassified Digest) (Report)
- Which Alternative for Energy Policy? (Speech)

Fecilities Manogement

Comments on Selected Aspects of the Administration's Proposal for Govemmont Assurance to Persite Utation Eurichment Groups (Report)

Fecility Construction Comments on the Administration's Proposed Synthesic Fuels Conserv-

calcular lynamin factor for the second secon

Proposal for Government Assistance to Private Unitian Enrohment George (Report) Plans for Construction of a Magnetoby-

drodynamics Test Facility in Meamen (Report)

Facility Transfer

223

232

211

227

211

The Energy Impact of Moving Department of Defense Activises from the Military Ocean Territori, Brookirs, New York, to Bayonne, New Jersey (Egon) 011 Fost Flox Test Facility Fast Flox Test Facility

Liquid Metal Fast Breeder Reactor	
Fuel-Cladding Information Center	
(LMFER)	450
Report on Fast Flax Tox Facility	301

Fast Reactors (Necleor)

	Can she U.S. Breeder Reactor Develop-	
R	ment Program Be Accelerated by Us-	
	ing Peerigs Technology? (Report)	245
	Cost and Schedule Estimates for the	
	Nation's First Liquid Metal Fast	
	Breeder Reactor Demonstration Pow-	
	explant (Report)	- 647
5	Parther Comments on Atomic Energy	
	Commission's Proposed Arrange-	
7	ment for the Liquid Metal Fast Brender Rescue Demonstration Pro-	
	icc. (Report)	633
2	The Lipsid Metal Fast Breeder Reactor	
۰.	Protrain-Past, Present, and Putare	
	(Actors)	045
	Liquid Metal Fast Brooder Reactor	
6	Program-Past, Protect, and Putare	
	(Testimory)	044
	The Liquid Moral Fast Breeder Reactor:	
٥.	Promises and Uncertainibies (Staff	
	atudal	049
	Proposed Changes to the Atomic En-	
₽	ergy Commission's Arrangement for	
	Carrying Out the Liquid Metal Fast	
	Breeder Resotor Demonstration Pro-	
2	jost (Report)	692
3		

Review of the Poderal Energy Administration's Advincey Committees (Reant)

193

Federal Agencles

Amendment of the Pederal Energy Ad-	
ministration Act of 1974 and the Ex-	
tension of its Expiration Date (Letter)	
	172
A Bill to Establish & National Energy Information Systom (Textensey)	15
A Bill to Extend the Federal Energy Admunistration Act of 1974 (Tes-	
timesy)	17
The Changing Role of the General Ac- counting Office in Energy Inferma-	
tion and Data Programs (Speech)	18
Efforts to Encourage Conservation in the Private Second (Report)	009
Energy Data Collection in the Pederal Government, (Testimony)	157
Paderal Biflorts to Conserve Borray (Report)	010
Pederal Bourgy Administration Person- nel Turnewer Rates (Report)	18
Impertance of Pissonial Data in Byal- uating Poderol Energy Programs (Dearch)	144
Improvements Still Needed in Paderal	
Baergy Data Collection, Analysis,	
and Reporting (Report)	182

Roome Environ Repairsonnate Innecessi by Foderal Powar-Marketing Agoncar on they Customers // ever 50 Requested Unity Rate Increase by the Petomac Eleators Power Company (Report) 12 Besize of the Information-Catherine Deartises of the Federal Energy Ad-10 ministration (Report) Revew of the Operations Division of the Federal Energy Administration (Record Federal Ald Programs Comments on H.R. 11212, 93rd Congress, a Bill to Parther Research, De-Demoestrations in Geothermal Enerry (Lener) 10 Comments on the Administration's Proposed Systhetic Faels Commercialization Program (Report) 14 Developing and Commercializing Rocray Technology (Teninous) Development and Commercializing Roerry Technology (Technology) 14 Passes Construction Stranding (Con-Amand Financial for Commercial-scene Damoutrations of Energy Technoloand (Technology Reports of Costs of Contain Structures. on Nongovernment Waters 10 Review of the Progress and Problems of Resource Recovery Since the Passare of the Resource Rootvery Art of 1970 Testimati Using Solid Waste to Conserve Resources and to Create Report (Report) Federal Assistance Comments on the Administration's Proposed Synthetic Forla Commerenhastion Pressan (Report) 14 Evaluation of the Administration's Propest for Government Atantanot to Private Utanium Enrichment Groups (Report) Pederal Assistance to State and Local ministering Energy Programs (Report) Peture Structure of the Uracium En-60 richment Industry (Testimaty) Pacific Northwest Hydro-Thermal Fower Program-A Regional Approach to Meating Electric Power Reorirements (Report) Federel Budgets Budgetung of Pederal Finencial Incenuves for Energy Development (Ter-12 (inserin)

Federal Employees

Employee	Disclosures under the En-	
ergy Pol	Ecy and Conservation Act	

26

The Energy Research and Development Administration's Proposed Contract with Propert Management Corporation, Coremonwealth Edison, and the Tennessee Valley Authonity (Report) 036

Energy Digest SEPTEMBER 1977

	Federal Energy Administration Person- ted Turnover Rotes (Report)	101
	Financed Occlosures by Employees Performing Functions under Energy Policy and Conservation Act	287
	The Proposed Contract for the Clinch Rover Breader Research Project (Ter-	20
,	anonyj Staffing of Poderal Energy Administra-	058
	uon's Office of Commencedores and Poblic Affrica (Report)	154
	Federal Expenditures Haw the Federal Government Partner- poten in Activities Affecting the En- orgy Resources of the United States (Report)	098
5	Federal Installations	
	The Energy Impact of Montag Depart- ment of Dafferse Activities from the Milnery Occas Terminal, Brooklyn,	
t	New York, to Bayanne, New Jersey (Report)	011
5	Potential for Using Electric Vehicles on Federal Installations (Report)	022
r		
	Federal Lands Royalty Accounting System Study of Solid Mineral Leasing Accounters	254
8		
	Federal Local Relations Poteral Assatunce to State and Local Governments is Developing and Ad-	
	enniatering Energy Programs (Report)	143
3	Reducing Nuclear Powerplant Lend- turest: Many Obstacles Remoin (Re- port)	04P
•	Federally Guerenteed Leens Alternative Pack for Aviation (H.R. 12117) (Teamony)	154
4	Budgeting of Federal Pinancial Incon- tives for Energy Development (Ter-	150
	dworgd Developing and Commercializing En- ergy Technology (Testimorg)	142
	Developing and Commercializing En-	140
,	ergy Technology (Taurreny) An Evaluation of Propased Poderal As- aistance for Financing Commerciali-	140
1	ration of Emerging Energy Technologies (Report) An Evaluation of Proposed Federal As-	151
	sistance for Pinasong Commonisk- zation of Pinerging Energy Technologies (Testiwony)	152
0		
	Federal Office Buildings Comparison of Energy Use in Five Fed- eral Office Buildings (Repart)	017
5		
	Federal Officials Actions Proposed Concerning Conflict of Interest	288
	Erroloure Disclosures under the Re-	

ergy Policy and Conservation Act

265

	Financeal Disclosures by Employees Performing Pasciners under Energy Pakey and Contervation Act	287
,	Information on Cortain Od and Gas In- dustry Oversight Responsibilities (Re- port)	105
3	Federal Records Management	
•	Ways to Strengthen Congressional Con- trol of Energy Construction Progetts Other Than Nucleue (Report)	192
	Federal Reputation Federal Hydroclostric Plana Can In- crosse Power Sales (Report)	201
	Federal Republic of Germony Can the U.S. Breader Reserve Develop- ment Progress Re Accelerated by Us- ing Ponign Technology? (Report)	245
1	Research and Development (Tes-	246
2	aword	245
	Federal State Relations Agreement between the Secretary of the Interfer and Officials of the Store of Usah Porturing to Oli Shule Leates	
4	(Lener) California's Central Valley Project- -Proposed Power Rate Increase (Re-	209
	port) The Coastal Zone Management Pro-	156
3	green An Uncertain Patture (Report) Effect and Operation of Improving Com-	167
,	pacts Relating to Natural Gas Federal Assessment to State and Local Governments in Developing and Ad-	211
	resistering Energy Programs (Report)	143
4	Financing Infrastructure in Eostrgy Development Areas of the Western States (Speech)	081
0	Ispace in Leanag the Atlantic Oater Continental Shelf (Tenawong) Magagement Interpretation Norded in	213
2	the Federal Power Commission's Processing of Electric-Rate-Increase	
ю	Cases (Report) Problems Casted by Cool Mining Now Federal Reservoir Projects (Tes-	153
	awangi Rodaning Nuclear Powerplant Lead- times: Many Chatacim Remain (Re-	676
	peri)	065
12	Fertilizers Opportunities for More Effective Use of Animal Manues (Report)	024
17	Films Energy Pilma Distribution	42
88	Financial Assistance Plasaring for Commercial-signd	

Demonstrational of Energy Technologies (Testhony) 141

133¹

Flagneigi Disclosure

Pinencial Duclosure	
Action Proposed Concerning Conflict	
of laterest	368
Employee Disclosures under the En- trgy Policy and Conservation Act	265
Fittincial Disclosures by Employees	
Performing Punctions under Energy	
Policy and Conservation Act	287
Need for improving the Regulation of the Natural Gas Industry and Man-	
agroment of Incertal Operations (Sc-	
port)	113
Need for the Pederal Power Commis- sion to Improve the Regulation of the	
mean of its internal Operations (Ter-	
innany)	114
Financial Management	
Pinancial Information System Scrittheastern Federal Power Program-	421
-Promoul Management and Program	
Operations (Report)	174
Financial Monitoring	
Corporate, Favancial, and Economic In-	
formation File (RISCELD)	402
(858 Model EUFINANCE)	377
(638 MODE EURIVANCE)	307
Financial Statements	
Convolutional Protocol Statement of the Federal Columbia Rover Power	
System	274
Financial Report on the Geothermal	
Resources Development Fund	309
Myelro and Electric Recurring Data Ro-	406
ports Power Surveys and Systems Dealua-	406
trac	407
Refunds on Outer Contacentel Shalf	
Laves	249
Fines (Penalties)	
Fines (Penalties) Recovery of Expenses from Cleanap	
and Invertigation of Oil Spills (Letter)	107
	147
Fissionable Materials	
Craticality Data Center	445
Flaad Centrel	
Problems Canved by Coal Meang Near Federal Reverveer Property (Report)	075
FEBLINE RESErved Projects (Append	0/3
Florido	
Federal and State Solar Energy Re- sparch, Development, and Demon-	
sparce, Development, the Demon-	200
Ford Foundation America's Entry Paters (Specify	171
, manual a second presented in the second	
Forecasting Coupled Energy System - Bostomic	
Models	639

76	ton (PIES)
09	Regional Econometric Demand Model and Anto Simulation Model (RD4)
06	Regional Industrial Mainplan Systems (RIMS)
90	Sevenance Tax Model
	Short Term Cosl Destand Forceasing Model
	Shatt Term Petroleum Danuad Fore- casting Model
	Sacio-Economic Environmental Demo- graphic Information System (SEE- DIS)
w .	
65	Foreign Countries Avessment of Unned States and Inter- national Controls over the Pescelal Uses of Nuclear Energy (Report)
	Issues Related to Persign Searces of Dal for the United States (Report)
75	A Sammary of European Views on De- pendency of the Free World on Mid- dic East Oil (Report)
20	Trends in Refinery Capacity and Unit- zation of Petroleum Refineries in the United States and Pereign Refinery Exporting Centers
20	U.S. Pinannal Assistance in the Dovo- lepanet of Foreign Nuclear Deergy Programs (Report)
n -	
	Foreign Economic Assistance The Parchase of Short-Sapply, Energy- Related Items through the Export- Import Bank of the United States (Recent)

Crode Og and Natural Gas Production

Crude Oil Pricing Model (DCROPS)

Dollarg Equipment Production Sur

Dynamic Input-Output Luone Pro-

Deciric Power Fuel and Environmental

FEA Household Energy Espenditure

Frieal Impact of Energy Price Changes on State and Local Government Parchann of Goods and Services

Intomational Energy Evaluation Sys-

Natural Gas Industry Evaluation Sys-

Neechissesi Reponal Growth and En-

Project Independence Evaluation Sap-

Income Duturbution Impact Model

International Coal Supply Model

International Oil Supply Model National Coal Model (RMAC)

Natural Gas Distributors Model

Natural Gas Shortage Model

Dil and Gas Supply Model

ergy Price Model OBCD Energy Domand Model

Plance Model

cray Impact Analysis (DIOLP)

grarmerg Model for Regional En-

Model

wy

Analysis Energy Abstracts for Pohey Analysis

(EAPA)

Model (HEEM)

tem (IEES)

Ictai

regreens reder Reactor Develop- Be Appplerated by Us-	
echnology? (Report)	245
coperation in Energy i Development (Ter-	
suntance at the Deve-	246
perign Nuelear Energy	239
ents Eestions of Current	
ees (Staff study)	237
azum Enrichment Ser- Foreige and Domestic	
tors (Report)	238
ces (Suff mulp)	237
ces (Sigf mody) Foreign Sources of Od	237 235
skeations of Current ces (Stoff mode) > Parengn Sources of Oil I Status (Report) Assistance in the Deve- worth Newlay Encour	
ces (Staff mody) Foreign Sources of Oil States (Report)	
ces (Stoff study) Foreign Sources of Od Status (Report) Assistance in the Deve- strong Nuclear Energy	235
ces (Stoff study) Foreign Sources of Od Status (Report) Assistance in the Deve- strong Nuclear Energy	235

215

082

311

435

166

087

an

Submission of U.S.S.R. Energy-Related Transactions for Congressional Re-Energy Digest SEPTEMBER 1977

Foreign Energy

mont Program ing Foreign 1

(nternationa) (

treese al

Foreign Govern

Economic Im

Allocation of II

wees to Feel

Nunkar Rea

Economic Im 222 World Oil Pr

U.S. Finencial

Fossil Fuels Contraction Q

> intery) Demostic Energy Resource and Re-

looment of f

Development of the Outer Continental

Shelf Forsil Puel Resources (Ter-

serve Estimates-Uses, Limitations, and Needed Data (Report) **Boological Sciences Information Center** (ESIC) The Economic and Environmental Im-

pact of Natural Gas Curtailments during the Winter of 1975-76 (Report)

Pederal Cool Research--Status and Problems to Be Resolved (Resort)

Intervenents Needed in the Federal Enhanced Oil and Gas Recovery Research, Development, and Demoustration Program (Report)

The Legality of the Reported Use by the

National Energy Policy: An Agenda for Anelysis (Report) Outlook for Federal Goals to Accelerate Leasing of Oal and Gas Resources on the Outer Continental Shelf (Reparel Progress and Problems in Developing

Nuclear and Other Experimental Techniques for Recovering Natural Gas in the Rocky Mountain Area (Re-

Energy Research and Development Administration of Centein Possil Energy Funds (Laner)

Possil Energy Program Report

Fossi Energy Undere

U.S. Pinencel

Programs (R. 405

396 Can the U.S. Br

259 Research at

321 lopment of F

441

593 World OI Pr

395 Foreign Policy 100

379

419 for the Unite

382 Programs (R.

180

128 Management

362 porti

381

385

376

434

20

235

232

236

134

Subject Index

France Can the U.S. Breeder Reactor Develop-		The Department of Defense's Conser- vation of Potroloum (Report)
mont Program Be Assalerated by Us-		Effect and Operation of Interstate Com-
ing Farcign Technology? (Report) International Cooperation in Reergy	245	pacts Relating to Nateral Gas Pederal Efforts to Conserve Pool in the
Research and Development (Ten- tivesay)	246	Morement of Men and Materials (Re- port)
Fraud		Insprovements Needed in Controls and Accounting for Georead Vehicle Pe- troleum (Report)
Federal Energy Administration's Ac- tions on Allocation and Pricing of		The Navy's Process of Discharging Fuel at Sea (Report)
Feel (Report)	114	Review of Average Fael Economy Standards under Title V of Motor Vehicle Information and Cost Savings Act
Fraedom of Information A Bill to Establish a National Energy		
Information System (Testwoorg)	158	Fuel Consumption Energy Data System (EDS) Pedetal Efforts to Conserve Energy
Fuel Allocation		(Report)
Arturn Taken by the Pederal Power Commission on Pror Recommenda-		
tions Concerning Regulation of the Natural Gas Industry and Manage- ment of Internal Operations (Report)	147	Fuel Coats The Economic and Environmental In- pact of Natural Gas Custalinouts
The Administration of the Petroleum		During the Winter of 1975-76 (Ten- timory)
Set-Aside Program by State Energy Offices (Report)	122	Information on the Proposed Alaska Oil Pipeline (Report)
The Beoneenic and Environmental Im- pact of Natural Gas Curtailments dur-		uberne frahere.
ing the Winter of 1975-76 (Report)	082	Fuel Dumping
The Economic and Environmental Im- pact of Natural Gas Curtainstots		The Navy's Practors of Discharging Faci at Sen (Report)
During the Winter of 1975-76 (Ter-	083	
Exemption of a Refined Petroleum Pro-		Fuel OII
duct from the Mandatory Petroleum Allocator and Price Regulations	291	Federal Energy Administration Efforts to Audit Fed Cil Supplies of Major
FBA Crode/Transportation Model	399	Utility Companies (Project Utility)
Pederal Energy Administration's Ac- tions on Allocation and Pricing of Paul (Report)	116	(Report)
Galf Oil Corporation's "Double Dip- ping" on Crude Oil Product Costa		Fusi Rassorch Past Flax Test Facility Program (Red)
(Repart)	138	study!
Improving the Operations of the Fed- eral Energy Administration Region X		Fond Energy Program Report Improvements Needed in the Fodoral
Diffice (Report)	111	Enhanced Ou and Gas Recovery Re- search, Development, and Demon-
Legality of Administration Actions an Printing and Storing Gas Coopera		stration Program (Report)
(Letter) Legality of Printing Gasoline Rationing	104	Report on ERDA's Nonnuclear Actro-
Compare by Pederal Energy Admena- tration (Letter)	103	
Problems in the Pederal Energy Office's Implementation of Emergency Pr-		Fuel Reserves Bulk Pack Need To Be Better Manager
troleton Allocation Programs at Re-	108	(Report)
gional and State Levels (Report) Review of Complaints Concerning the	(08	
Mandatory Petroleum Allocation Program and the Regulation of Pe-		Fusis Bulk Fusis Need To Be Better Manager
trojeum Priemg (Report)	102	(Asport)
Suppliers' Compliance with Allocation and Price Regulations (Report)	109	Commodity Data Summeries and Man cral Estimates
		Decretic Energy Resource and Re serve Estimates-Uses, Limitations and Needed Data (Report)
Fuel Conservation Alleged Wasts of Money in Printing		Dual Fast Program (Report)
Costs on Gas Rationing Coupons (Letter)	110	Energy Conservation (Peakwarg) Energy Efficiency of Nuclear and Con-
Automobile Classification Data Base	245	ventional Fiels Used to Produce Electricity (Report)
Energy Digest SEPTEMBER 197	<i>'</i>	

sd Operation of Intenstate Coer- Relating to Nateral Gas	297	Demonstrations of Energy Technolo- and (Tentrona)
Efforts to Conserve Post in the ment of Men and Materials (Re-	004	Improved Policies and Poscolares for the Exploration and Dovelopment of Outer CostneroialShell Research (Criterere)
ments Needed in Controls and entag for Geored Vehicle Pe- m (Report)	010	Improvements Needed in Controls and Accounting for Ground Vehicle Pe- troleem (Report)
ny's Pracuse of Discharging 4 Ses (Report) of Australia Fast Resecutiv	020	Improvements Needed in the Federal Enhanced OI and Oas Recovery Re- search, Development, and Demon-
of Average Fael Economy ands under Title V of Motor le Information and Cost Savange		stration Program (Report)
	278	Fuel-Cladding Information Conter (LMPBR) Major Fuel Barring Installation-Early
umption Data System (EDS) Efforts to Conserve Energy	341	Planning Process Identification (EPPE)
n)	010	Major Fuel Barrieg Installations (MFBB) Middle Distillate Price Meestering Sys-
		lein
of Natural Gas Cantaitments		Mineral Land Assessment Mineral and Minerals Pality
g the Wister of 1975-76 (Teo-		Mining Relearch
#	063	Monthly Petrojeurs Statistics Report
tion on the Proposed Alaska Oil no (Report)	074	
		National Energy Febry: An Agenda for Analysis (Report) National Plan for Energy Research,
ping wy's Practoce of Discharging at Ses <i>(Report)</i>	020	Planning and Analysis
a bia (alpha)		Natural Gas Curtasiments
		The Navy's Practice of Discharging Fuel at Sas (Report)
Energy Administration Efforts all Fuel Cil Supplies of Major Companies (Project Usility)		Procurement of Forman and Domestic Petroleum by Department of Dofense (Report)
nj	126	Propage/Basson Allocation System Refinery Cost Passibrough
erch as Test Facility Program (Reg)		
inergy Program Report	041 211	Fuel Storoge
enersta Needed in the Federal need Ostand Gas Recovery Re-		Belk Parks Need To Be Better Managed (Asport)
h, Development, and Demon- on Program (Report) on SRDA's Normalian Activi-	155	Fund Allocation
RE DOLLAR & POINTAGE ALLAN	310	Followup Review of the Navai Pe- tralects Reserves (Report)
rrves apia Niced To Bic Better Managesi artj	014	Fusion Methods Differs to Develop Two Nutlear Con- cepts That Could Oranty Infrove This Country's Fature Energy Stan- tion. (Report)
els Neol To Be Bettor Managod ati	014	in any in
adity Data Scenaries and Mar- Estimates	266	Ges
tic Energy Resource and Re- Estimates-Uses, Limitations,		Comparison of Energy Use in Five Ped- eral Office Buildings (Report)
Needed Data (Repart)	233 001	Deal Paol Program (Report)
tel Program (Repart) Conservation (Testimony)	001	Effect and Operation of Intentate Com- pacta Relating to Natural Gas
Efficiency of Nuclear and Con- anal Foels Used to Produce		Energy Efficiency of Nuclear and Con- ventional Pacia Used to Produce
nety (Report)	635	Electricity (Report)

295

018

155

358

221

267

201

285

191

305

357

m

091 345 348

014

220

0.68

017

001

Farmy Researce Data Systems

Finincies for Compensi-sund

012

197 **ms** 135

Gaalam

Internet Palkaes and Powedares for the	
Exploration and Development of Oaler Continential Shell Resources (Pression)	233
Interpretational Energy Evaluation Sys- tern (IEES)	384
Notural Gas Industry Evaluation Sys- terns	415
Ways in Which Department of Housing and Urban Development Cap Pro-	
mote Energy Conservation (Report)	003
Gos Componies Recept and Coordination of Natural	
Gas Reserve Data (Report) Review of FPC and FEA Actions in Av-	078
Review of FPC and PEA Actions in Av- sessing the Impact of Natural Gat Cumulments during the Winter of	
1976-77 (Latter)	CAS
Goseous Diffusion Plants Evaluation of the Admonstration's	
Proposal for Government Assistance to Private Unanzum Emilehenent	
Groups (Report)	124
Goseous Diffusion Process	
Efforts to Develop Two Nuclear Can-	
copts That Could Greatly Improve This Connery's Poture Energy Situa- tion (Report)	048
Energy Research and Development Administration's Contingency Plan	
for More Enrichment Capacity at	
Partemouth, DH (Report)	052
Goses	
Report to the Congress on Matters Con- tained in the Holsen Act	268
Gas Exploration Outer Continental Shelf Oit and Gas	
Development Improvements Needed in Departments Where to Leave and at	
What Dollar Value (Report)	218
Gas Industry An Evaluation of the Federal Power	
Congrission's Releasing on Utili- ties' Construction Work in Progress	
(Report) Receipt and Coordination of Natural	229
Das Reserve Data (Report)	6718
Gazaline Automobile Classification Data Base	
Cost and Pricing System	245
Energy Conservation (Testimony) The Energy Impact of Moving Depart-	015
ment of Delease Activities from the Military Ocean Terminal, Brookiyn,	
New York, to Baytant, New Jursey	611
(Report) Pederal Efforts to Conserve Patl in the	vii
Movement of Men and Materials (Re- port)	004

Economy of New Automobiles (Re- part)	
	030
Federal Energy Administratore's Ac-	
teers on Allocation and Pricing of	
Fuel (Report)	116
Monthly Energy Review	281
Monthly Petroleum Statistics Report	285
OECD Energy Domind Model	356
Petroleum Markot Shares	284
Quarterly Report of Production from	
the Naval Petroleum and Oil Shale	
Reserves	258
Relinery Cost Passtheough	348
Regional Econometric Damand Model	
and Auto Simulation Model (RD4)	
	385
Review of Average Fuel Economy	
Standards under Title V of Metor	
Vehicle Information and Cost Savings	
Art	278
Revew of Completion Concerning the	
Keves a compound cookering on	
Mandatory Petroleum Allocation Program and the Regulation of Pe-	
Program and the Regulation of Pe-	102
troleust Pricing (Report)	
Subpart L	367
Suppliers' Compliance with Allocation	
and Price Regulations (Report)	109
Goseline Rotiening	
The Administration of the Petroleum	
Sel-Aside Program by State Energy	
Offices (Appart)	122
Alloged Waste of Monty in Princing	
Costs on Gas Rationing Coupons	
(Letter)	110
Legality of Administration Actions in	
Printing and Storing Gas Coupons	
Printing and Social Gas Coopens (Letter)	104
(Lever)	104
(Lever) Legality of Printing Galoline Reference	104
(Lener) Legality of Printing Gasoline Ratineing Cropous by Federal Energy Adminis-	
(Lever) Legality of Printing Galoline Reference	104 103
(Lener) Legality of Printing Gasoline Ratineing Cropous by Federal Energy Adminis-	
(Letter) Legitty of Pristing Guidine Rationing Capital Dy Federal Energy Adminis- tration (Letter)	
(Lever) Legitity of Printing Gatoline Rattering Crosposity Pederal Energy Adminis- tration (Lever) Goseline Taxes	103
(Letter) Legitty of Pristing Guidine Rationing Capital Dy Federal Energy Adminis- tration (Letter)	
(Lever) Legitity of Printing Gatoline Rattering Crosposity Pederal Energy Adminis- tration (Lever) Goseline Taxes	103
(Lenny) Leghty of Pistong Guotine Rationing Cropperby Pederal Bonry Adminis- tration (Linny) Goseline Toxes Energy Conservation (Patronay)	103
(Long) Legithy of Phinton Guolino Relowing Crepose by Federal Energy Adminis- aution (Long) Goseline Taxes Energy Conservation (Termonoy) Ges Production	103 015
(Long) Legisty of Pisting Guoine Riboreg Creposity Federal Energy Adminis- tution (Long) Gost Inter Taxes Energy Conservation (Partnang) Gost Production Oil and Gen Reserves System	103
(Low) Legatiy of Pistong Guoline Rithmeng Ceoposity Federal Benerg Adminis- tation (Lew) Gostellas Taxes Energy Councervelice (Tennesoy) Gos Production Oll and Gen Reserves System Projets Independence Evaluation Syn-	103 015 379
(Long) Legisty of Pisting Guoine Riboreg Creposity Federal Energy Adminis- tution (Long) Gost Inter Taxes Energy Conservation (Partnang) Gost Production Oil and Gen Reserves System	103 015
(Low) Legatiy of Pistong Guoline Rithmeng Ceoposity Federal Benerg Adminis- tation (Lew) Gostellas Taxes Energy Councervelice (Tennesoy) Gos Production Oll and Gen Reserves System Projets Independence Evaluation Syn-	103 015 379
(Low) Legatiy of Pistong Guoline Rithmeng Ceoposity Federal Benerg Adminis- tation (Lew) Gostellas Taxes Energy Councervelice (Tennesoy) Gos Production Oll and Gen Reserves System Projets Independence Evaluation Syn-	103 015 379
(Lenn) Leghty of Philang Gluckine Rathering Croposes by Federal Energy Adentis- sation (Lenn) Ges Alles Taxes Hongy Conservation (Zennaug) Ges Predvetion Oil and Gue Reserves System Professional Conservation Sys- tem (VIRS)	103 015 379
(Lerror) Learning of Horizang Ottokere Richtering Crisposal by Federal Elerry Alernak- soties (Learne) Gestellies Torse Elerroris (Channas) Gest Prederettion Official Carl Reserves System Preferettion (PHR) Learness Deservest on the Inserves System (PHR) Deservest on the Inserves System (PHR)	103 015 379
(Leroi) Learity of Pisting Outwire Rethering Croups by Pisting Energy Admitte- orising theory Generative Terminal Comparison Party Comparison (Comparison) Comparison (Compari	103 015 379
(Leroi) Learity of Pisting Outwire Rethering Croups by Pisting Energy Admitte- orising theory Generative Terminal Comparison Party Comparison (Comparison) Comparison (Compari	103 015 372 381
(Lerror) Learning of Horizang Ottokere Richtering Crisposal by Federal Elerry Alernak- soties (Learne) Gestellies Torse Elerroris (Channas) Gest Prederettion Official Carl Reserves System Preferettion (PHR) Learness Deservest on the Inserves System (PHR) Deservest on the Inserves System (PHR)	103 015 379
(Leve) Learny of Prinna Quokee Rithering Copush Y Peters Energy Admits- setter (Annue) Generation Traces Energy Conservation (Prinnaud) Gen Protection Of and Gen Reserves System Printer Independence Evaluation Sys- tree (PIRS) Gen Reserves Despression of the Inseries Study of Study In Dia and Gen Well Comple- tion (Despression) of the Inseries Study of Study In Dia and Gen Well Comple- Menod	103 015 372 381
Anni Landi Landi ya Alvanoa Daobie Kenneng Cashi ya Alvanoa Daobie Kenneng Cashi ya Alvanoa Daobie Cashi ya Alvanoa Daobie Cas	103 015 372 381
(Long) Landry & Hong Charlos Kainey Landry & Hong Charlos (Landry Alman) Landry (Landro) (Landro) (Landro) Gaulia Taxa Landro) (Landro) Gaulia Taxa Depinent of Landro) Gaulia Santa Depinent of Landro) Gaulia Santa Depinent of Landro) Gaulia Santa Depinent of Landro) Gaulia Santa Depinent of Landro) Landro) Depinent of Landro) Bardon Depinent of Landro) Landro) Depinent of Landro) Lan	103 015 372 381 224
Carrol Capitry of Head Quadra Reisen Capitry of Head Quadra Reisen Carrol Carr	103 015 372 381 224 105
Anny Cashy of Hong During Annual Series <i>E-any</i> 50 , 1640 101 , 101 101 ,	103 015 372 381 224
Anny Anna Carlo Element Lang al Particular Sector Sector and Carlo Carlos Carlos Carlos Carlos Context Test Context Test C	103 015 372 381 224 105 372
Anny Cashy of Hong During Annual Series <i>E-any</i> 50 , 1640 101 , 101 101 ,	103 015 372 381 224 105
Anny Anna Carlo Element Lang al Particular Sector Sector and Carlo Carlos Carlos Carlos Carlos Context Test Context Test C	103 015 372 381 224 105 372
Anny Calory of Venezia Control & Control 2006 (Control West Annuel 2006) (Control West Annuel Control Test Control Test Control Test Control Control (Control 2006) (Control West Control Control Control 2006) (Control Control Control Control Control 2006) (Control Control Control Control Control Control 2006) (Control Control Control Control 2006) (Control Cont	103 015 372 381 224 105 372
Anny Anna Carlo Element Lang al Particular Sector Sector and Carlo Carlos Carlos Carlos Carlos Context Test Context Test C	103 015 372 381 224 105 372

Geologie Surveys, Investigations, and Research Program	327
Geophysical Research Geologie Serveys, Investigations, and Research Program	327
Geothermol Energy Communes on H R. 11212, 93rd Con- gress, a Bill to Further Research, De- velopment, and Commercial Democratistories in Geothermal Eo-	
ergy (Letter) Energy Resource Data Systems	196
International Energy Evaluation Sys-	340
tem (IBE\$)	364
Massgement and Panding Aspens of Three Nonroclew Energy Research, Development, and Demonstration Subprograms (Report)	203
National Geothermal Information Re-	
searce (GRID) Froblems in Mentifying, Developing, and Using Goothermal Resources	451
(Report)	199
Geothermol Resources Activities of Exch Goothermel Demos- scration Project	107
Acovities of the Goothermal Coordena-	
tion and Maragement Propert	306
Geothermol Resources Development Fund Prospical Report on the Geothermal Refources Development Pund	329
Geothermy Parancial Report on the Geothermal Resources Development Find	329
Government and Business Comments on Selected Aspects of the Administration's Proposal for Oov- erament Amistance to Private	
Uranuan Encelusioni Groups (Report) Comments on the Administration's	145
Proposed Systhetic Faels Commer- culturion Program (Report)	140
Developing and Commercializing En- ergy Technology (Terrimony)	145
Demostic Crade Oil Pricing Policy and	
Related Production (Report) The Energy Research and Develop-	172
ment Administration's Proposed Contract with Project Management Corporation, Commonwealth Editon, and the Tennessee Velley Authority	
(Report)	055
The Evaluation of the Administration's Proposal for Government Assistance	
to Private Uranium Enrickment	0.53
Groups (Testimony) Evaluation of the Administration's	003
Proposal for Opversment Assistance	
to Private Uraniam Barichment Groups (Reservi)	134

Energy Digest SEPTEMBER 1977

14. No. 1

Practage for Commendente Derrythermony serger Tehelowicz Possis Bergs Possion Report Possis Bergs Possion Report Possis Bergs Possion & Adamse Early Contribution of Adamse Early Record Resource Detections for Adamse Record Resource Detections for Adamse Possion Resource Topological Octaber Resource Topological Proposed Baskhlausen of Adamse Topological Progened Baskh
Proposed Revisions to the Centeria and Contracts for Unitation Exactlification Services (Report) Whitch Alternative for Energy Policy? (Speech)
Govorement Assistance The Evaluation of the Administration's Proposal for Convergence Assistance to Private Unionare Eurobancest Groups (Testeway)
Government Contracts Componiences Royalty Agreements Emergy Conservation Program at Prov Government Contractors (Report) Protectual of Oil Reserves
Government Corporations Evaluation of the Administrature's Proposal for Government Addisance to Private Uninium Enrichment Groups (Report) Protect Structure of the Uninium En- richment Industry (Distance)
Government Instellations Reargy Conservation at Government Field Installations: Progress and Problems (Report)
Governmental investigations Recovery of Expenses from Cleanup and Investigation of Or/Sprits (Letter)
Government Litigotion The Pederal Energy Administration: Quarterly Report on Private Orles- ances and Redress
Government Poperwork Problems Is. Lisensing. Hydroelectric Properts (Report) Ways to Security Construction Projects trol of Energy Construction Projects Other Than Nuclear (Report)
Government Procurement Contracts Information System (CIS)

Energy Digest SEPTEMBER 1977

Energy Efficiency Reace of Window Air-Conditioners (Report)	005
Energy Research and Development	
Administration's Contingency Fish for More Enrofiment Capacity at	
Porumouth, OH (Report)	652
Poleses and Programs Storig Developed	
To Expand Procurement of Products	
Containing Resysted Materials (Re-	023
Survey of Foderal and Electric Upbry	
Procurements of Power Equipment	
(Report)	162
Violation of Colling Proces in a Defense	
Fuel Supply Center Sale (Report)	128
Government Preserty	
Role of Pederal Cost Resources in	
Meeting Energy Geals Needs to be	
Determined and the Leaving Process	224
Improved (Report)	225
Government Publications	
Evaluation of the Publication and Das- tribution of "Shodding Light on Freta	
about Nuclear Energy" (Repart)	064
Government Regulation	
Beliafante Nuclear Plant (Sinff study)	054
Beliefwete Nuclear Plant (Sinff study) Comments on Selected Aspects of the	034
Beliefante Nuclear Plant (Staff study) Certments on Selected Aspects of the Administration's Proposal for Gav-	034
Beliaforte Nuclear Plant (Stuff study) Cernments on Scheeted Alspects of the Administration's Proposal for Car- entronit Assistance to Primite	054
Beliefante Nuclear Plant (Staff study) Certments on Selected Aspects of the Administration's Proposal for Gav-	
Belisiberte Nuclear Plant (Staff study) Germenti on Selected Aspects of the Administration's Proposal for Gav- estronat Assettence to Primite Uesarum Entichesent Groups (Report)	054 145
Belidionte Nuclear Hunt (Mul/ study) Cerments on Scients Auports of the Administration's Proposal for Cov- estationst Austracion to Princie Usanum Entilitatest Groups (Reput) Development of Interactory Relation-	
Belisiberte Nuclear Plant (Staff study) Germenti on Selected Aspects of the Administration's Proposal for Gav- estronat Assettence to Primite Uesarum Entichesent Groups (Report)	
Beildone Nucker Jien (Shif) subj. Germent: no Sketist August of the Administration's Proposal for Gor- errorast Anatoxo to Primie Unation Entithetest Groups (Report) Development of Interagoney Rehistor- this in the Regulation of Nucker Monomia and Fuctors (Report Bergy Conterving Programmers En-	145 055
Beliafonte Nuclear Jinut (Shuff ands) Cerements on Societad August of the Administration's Proposal for Gar- etternest Amategoe to Primate Usasiant Endistanced Groups (Abstra- higes in the Regulation of Nuclear Motionis and Puetitos Caparol Bergy Construction: Primeros En- osanged by Stotes (Report)	145
Belidione Nucker Jian (Shift and) Cerement on Selecta August of the Administration's Proposal for Gor- entrons I Annexace to Private Unation Enrichtenet Groups (Report) Development of Interagoney Rehistor- thips in the Regulation of Nucker Monomia and Fuethiss (Report Transcore, Information: Report Transcore, Information: Report	145 055
Beilsfore Nuclear Fart (Muf Jady) Comments on Schuts August of the Administration? Imposed for Generation Neuronn Enrichtures (Possie (Appli)) Dowlogeneast of Interqueezy Relations that in the Registrics of Nuclear Bergy Conternation Program Pro- sensated by States (Street Fissensity International States) Diversity of States (Street Fissensity International Neuron International Development Acts of the Written	145 055
Belisfones Noelsen Fanet (Mar) study Comments on Schetzsk August at Mus Administratures's Proposal for Grows Lawrens Earthitzers Compte (Append Development of Intergatory Relation- thy) in the Regulation of Neckner Monomin and Peterbiss (Append Bergy: Conservation Program Street Monomin and Peterbiss (Append Bergy: Conservation Program Street Monomin and Peterbiss (Append Bergy: Development) Annual Street (Append)	145 035 006
Beilsfore Nuclear Fart (Muf Jady) Comments on Schuts August of the Administration? Imposed for Generation Neuronn Enrichtures (Possie (Appli)) Dowlogeneast of Interqueezy Relations that in the Registrics of Nuclear Bergy Conternation Program Pro- sensated by States (Street Fissensity International States) Diversity of States (Street Fissensity International Neuron International Development Acts of the Written	145 035 006
Builshore Noeker Jen (Jhuf) adu) Ceremento a Schetaf Augest of the Administration? Imposed for Gam- barrishter and the Administration of the Unserver Excellances Correspondence Monomit and Fractions (Appendence Monomit and Fractions (Appendence Monomit and Fractions (Appendence Monomit and Fractions (Appendence) Berger Correspondence) Berger Correspondence Monomit and Section (Berger) Development in Berger Development and the Wetter Neural Class Replaced System (Pre-	145 055 006 081
Beitdner Noder Jent (2014) auf- Germesen on Schotz Aspect of the Administration Proposal for Car- bination and Carbon Carbon (2014) Unseen Entertainen (2014) Enter Henren 1. Statistica (2014) Enter Mannes to di Pacifico (2014) Energy Conservation Processes Brites Moments of Pacifico (2014) Energy Conservation (2014) Berreg Pacifica (2014) Ber	145 055 006 081
Britishner Noder Treit (Mrg/ anky) Germesica in Societa Aspecia of the Automatical Aspect of the Automatical Aspects of the Automatical Aspecta of Aspecta Hausen Endelman Clevels (Aspecta Hausen Endelman Clevels (Aspecta Hausen) and Pacifics (Aspecta Hausen) and Pacifical Hausen (Aspecta Hausen) and Aspecta Aspecta Hausen Cas Replanus System (Per- dece Rad) Hausen Cas Replanus System (Per- dece Rad)	145 055 006 081 414 416
Buildner Nuder frem (1964) subj Germessin as Marcia Aspesi of the Aspesia Aspesia of the Aspesia of the Aspesia Aspesia and Aspesia Harman Aspesia and Aspesia Harman Aspesia and Aspesia Harman Aspesia and Aspesia Energy Construction Presents In- senged by Sheet (Reyef) First, Institution (R	145 055 006 081 414
Baitinen Nuder Jiert (1987) aufs Garmessin as Moriza Agues of Mu- errent Astronov in France Laware Entitient Covers Agues Description (1998) and Agues Research (1998) and Agues Research (1998) and Agues Research of Particle Agues Description (1998) and Agues Research of Particle Agues Description (1998) and Agues Description (1998) a	145 055 006 081 414 416 416
Buildner Nuder frem (1964) subj Germessin as Marcia Aspesi of the Aspesia Aspesia of the Aspesia of the Aspesia Aspesia and Aspesia Harman Aspesia and Aspesia Harman Aspesia and Aspesia Harman Aspesia and Aspesia Energy Construction Presents In- senged by Sheet (Reyef) First, Institution (R	145 055 006 081 414 416
Baitinen Nuder Jiert (1987) aufs Garmessin as Moriza Agues of Mu- errent Astronov in France Laware Entitient Covers Agues Description (1998) and Agues Research (1998) and Agues Research (1998) and Agues Research of Particle Agues Description (1998) and Agues Research of Particle Agues Description (1998) and Agues Description (1998) a	145 055 006 081 414 416 416
Initiate volume transmission of the second s	145 055 006 081 414 416 416
Initiates volume training and the second sec	145 055 006 081 414 416 416

face E	stration of Repulse Suplemation, Mean o of Public and (Report)	g, and Recis-
Departm Comm Registi Minito	neat of the interi- neats on Admin atticut for Surface g, and Reclamation adjon Coll Lands	ubtration of Exploration, on of Public
Brergy	Conservation (Te.	strong/
Energy (Test)	Reorganization many/	Legislation
	Coal-Lessing Pro-	

The Poderal Beergy Administration's Compliance and Enforcement Activities (Testinosy)

Pederal Energy Administration's Ef-

Parihot Action Needed on Recontribut-	
dations for Improving the Adminis- tration of Federal Coal-Leasing	
Program (Report)	217
Lessing of Minerals on Public Lands (Report)	211
Management Improvements Needed in	
the Federal Power Commission's Processing of Electric-Rate-Increase	
Processing of Electric-Rate-Increase Cases (Report)	153
Power Factor Requirements Impared	
by Pederal Power-Marketing Agen- cies on their Contomers (Letter)	204
Problems Caused by Coal Mining Near	100
Federal Reservoir Projetts (Report)	075
Problems Caused by Coal Mitting Near Federal Reterver Presents (Ter-	
Amonty)	076
Problems in Regulating Natural Gas Proces by the Fodoral Entersy Ad-	
Proces by the Folleral Energy Ad- matistration (Report)	139
Problems in the Federal Energy Ad-	
ministration's Compliance and En- forcements Effort (Report)	118
Requests to Regulatory Agenties by Oil	
Companies for Dovisions from Standard Protodures (Resort)	148
Suppliers' Compliance with Allocation	
and Price Regulations (Report)	109
Government Role	
How the Federal Government Panici- pates in Activities Affecting the En-	
pates in Activities Affecting the En- ergy Resources of the United States	
(Report)	098
Government Service Contracts	
Contracting Ont Datic Planning and Management Program Punctions (Re-	
port)	088

vices to Fuel Foreign and Dottestic Nuclear Reactors (Report)

Developing and Commercializing Energy Technology (Tennsorg)

Federal and State Solar Energy Research, Dovelepment, and Domon-

Report on Reprogramming Action for

Review of Solected Federal and Private

Status of the Grand Coulee-Raver

Transmission Line Project (Report)

Solar Energy Activities (Report)

Grand Coulae-Rover Transmission

Line Project

the Nuclear Materials Program

stration Activities (Report)

Government Spending

Budget History Tables

forts to Audit Domestic Crude Oil

Preducers (Report)

Government Services Allocation of Uragum Enrichment Ser-

-

125

154

....

152

203

143

275

015

235

166

129

227

185

354

124

Green River Basin (WY) Program and Problems in Developing Naclear and Other Evportmental Techniques for Recovering Natural Gas in the Rocky Monstain Ares (Re- port)	877	Households FEA Household Energy Expenditure Model (HEEM) FEA Household Energy Savery	389 394	Sanus of the Grand Coulee-Raver Transmustica Line Project (Rapped) Supervisory Control and Data Arquisi- tion System (SCADA)
Guilf of Alesko Reports of the Wark Group on OCS Selecy and Pollware Control	257	Howing Report on Solar Energy Demonstra- tion Ways in Which Department of Horning and Urban Development on Pro- mole Stergy Conservation (Report)	263 003	Hydroelectric Powerplants Hydroelectric Power Resources of the United States (FUPR) States of Peading Hydroelectris Ap- phranoms
Guil of Maxico Department of the interner Study of Shue-In Oil and Oas Well Comple- tions and Leases-GAO Observations (Report)	224	Housing Cherectaristics Project Conserve	344	Hydrology National Water Data Exchange (NAW- DEX)
Guil Oll Co. Requests to Regulatory Agossies by Da Companies. For Devisions from Standard Procedures (Report)	148	Hausiag Improvement Neucosi Sandaris Norded for Res- denial Energy Conservation (Report)	619	Hydrotharmol Energy Alterentive Facilis for Avieton (H F 12112) (Tatamong) An Evaluation of Proposed Foderal Ar- sestance for Francing Commovidu- nation of Emerging Energy Technologues (Report) An Evaluation of Proposed Foderal Ar-
Hexerdous Substences Enviroamental Resource Creater (ERC) Netwods Applied Boology Information	419	Housing Standards National Standards Needed for Resi- dential Energy Construction (Report)	039	sinance for Financing Commercul- ation of Energing Rougy Technologies (Testimory)
Center Spill Prevention Control and Counter- metisate System (SPCCS) Technical Associance Data System (PADS)	462 342 340	Ways of Which Department of Homing and Urban Development Can Pro- mole Energy Conservation (Report)	000	Hydrotharmol Power Management and Funding Aspects of Three Neonsuctear Energy Roteatch, Development, and Demonitration Subgroupment, (Report)
Heating Energy Conservation in Federal Office Buildings in Coldinaus (Approl)	802	Hydroalastric Piezes Anssal Report on the Columbus River Power System Consolidatod Presental Southest of the Potent Columna River Power	275	Pacific Northwas Hydro-Thermal Power Program-A Repson Ap- proach to Meeting Electric Power Re- genementa (Report) Hydrothermal Power Program
Heating Oli Modele Dutillate Price Meastoring Sys- tern	347	System Power Production at Federal Dami Cotld Be Increased by Modernizag Turbenet and Ganzadow (Appert)	274	Antual Report on the Columbia River Power System
Mossility Petroleum Statistics Report Refinery Cost Passihrough	255 348	Reports of Cents of Certain Saructures on Nongoversment Waters	298	Import Quotos Energy Conservation (Testorony)
Haoting Systems National Solar Hennig and Cooling In- formituon Center	422	Hydroxitethic Power Colderna's Central Valley Project- -Proposed Power Rate Increase (As- port) Potenal Hydroclectine Parets Can In- center Priver Sales (Resert)	156	Imports Allocation of Uranium Barichment Ser- vises to Fuel Foreign and Docessic Nuclear Reactors (Report) Alternative Energy Proposals (The tenoing)
Hallum Federal Helium Program Report to the Congress on Matters Con- tained in the Helaum Act	320 268	Hydro and Electric Recumug Data Re- ports Pacific Neethwest Hydro-Thermal Power Program-A Report Ar-	406	Alternative Energy Proposals Deve- loped by the Gentral Accounting Of- fice to Response to Congressional Inqueries Proposals and Supporting Analysis (Partwars)
Hiring Proctices Johan Natarial Restructs-Part II: Coal, Oal and Oas-Better Manage- most Can Improve Development and Increase Internet Internet. (Report	225	proach to Meeting Beetile Everer Re- quirencess (Report) Piessing and Billing System Piese Operations and Power Schedul- ing Power: New Program Problems in Licensing Hydrosiceme Properts (Report) Real-Time Operations, Deparkh and	161 339 335 336 132	adalptical (reasonage) Analptical for Energy, Electorenic, and Budgetary Impacts of 17.8, 6454 Charged marks of Interaceptive Relation thips in the Regulation of Nather Materials and Facilitate (Report) Economic Implications of Current World On Printses (Abg Twoho) Energy, the Economy and the Budge (Bherb)
Homo Rapole and Improvement Ways in Which Department of Housing and Urban Development On Pro- more Energy Construction (Report)	a 09	Scholularg (RDDS) Revenues and Coats Allocated to Power Operators at Multiple-Purpose Pro- jetts in the Southwestein Federal Power System (Report)	327 096	(Speech) FEA Dil Import System Punds Confined to the Account of the Virgin Islands for Relands from In- port Locuse Fees (Report)

Issues Related to Foreign Sources of Oil for the United States (Expan)
Mandatory Oil Imports Protect
(MOIF) Networel Storgy Policy: An Agonda for
Analysis (Report) Natural Gas Company Operating Infor-
mation File Natural Gas Shoriage: The Role of Im-
ported Liquefied Natural Gas (Report)
A Summary of European Views on De- pandoncy of the Pose World on Mid- die Eost Oil (Arpen) Transfer Posing System
Trends in Refinery Canacity and Utili-
aation of Petroloum Refineries in the United States and Foreign Refinery
Esporting Centers Which Alternative for Energy Policy?
(Speech)
Incentives
Budgeting of Federal Financial Incon- tives for Beergy Development (Ten- minany)
Developing and Commerculturing En- orgy Technology (Technology)
Developing and Commerculumng En- orgy Technology (Teanwary)
Energy, the Economy and the Budget (Speech)
Using Solid Waste to Conserve Re- sources and to Create Energy (Report)
stoling and is create Tablika (wides)
lacome
Section National Resources-Part 11. Coal, Ori, and Gas-Better Menaga- ment Cas Improve Development and Increase Income and Employment (Report)
Income Distribution FEA Household Energy Expenditure
FEA Household Energy Expenditure Model (NEEM)
Income Databation Impact Model
income Tax
The Foderal Income Taxes of Class A and B Electric Ublides (Report)
indemn By
Agreement between the Secretary of the Interior and Officials of the State
of Utah Pertaining to Oil Shala Lanaes (Letter)
indemolty Boods
Further Comments as Atomic Energy Commission's Proposed Arrange- ment for the Liquid Motel Fast
Brooder Reactor Demonstration Pro-
just (Report) Proposed Changes to the Atenno En-
ergy Commission's Arrangement for Carrying Out the Liozed Metal Past
Breeder Reactor Demonstration Pro- jeot (Report)

Energy Digest SEPTEMBER 1977

235	Indian Londs Administration of Regulations for Sur-	
253	face Exploration, Mining, and Recta- mation of Public and Indian Cost.	
191	Lands (Report) Department of the laterior's Views of	093
413	Commants on Administration of Regulations for Surface Excloration.	
	Minung, and Reclamation of Public and Indian Coal Lands (Report)	095
241	Indust. Natural Resources-Part II Coal, OJ, and Gas-Better Manage- teen Cas Improve Development and	
224	(Report)	225
351	Royalty Accounting System Study of Solid Mineral Leasing Activities	254
360	Indian Reservations	
168	Dil and Gas Leasing on Federal Lands (Report)	210
	Provenors of Nevejo and Hopi Coal Losses (Report)	207
	Indian Rights	
150	Indian National Representati-Part II:	
1.42	Coal, Di, and Gas-Better Manage- ment Cas Improve Development and Increase Income and Employment	
145	(Report)	225
169	Indians (American)	
013	Provisions of Navayo and Hopi Coel Leases (Report)	207
	Industrial Energy Conservation Program Industrial Energy Efficiency Program	
	instant and product regime	296
125	Industrial Multipliers Regional Industrial Multiplier System (RIMS)	392
393	Industrial Procurement	
390	Mangement of an 6 Plans for the Navel Petroleum Reserves (Report)	227
185	Industrial Westes Plane Model	362
	Problems Counted by Coal Mining Near Rederal Reservoir Projects (Report)	075
209	Industry Actives Taken by the Federal Power Construstion on Prior Recommendi- toos Conserring Regulation of the Natural Ges Industry and Manage-	
	ment of Internal Operations (Report) Alternative Energy Properate (Tea-	147
633	disony) Alternative Energy Proposals Devo-	145
ω)	loped by the General Accounting Of- fice in Response to Congressional Inquirier Proposits and Supporting Analyses (Takimosy)	146

Abstrative Parts for Aviation (H.R. 12112) (Texternal

Batigeting of Federal Fienceial Incen- tries for Energy Development (Te- traces)	150
Comments on Proposed Legislation to Change Basis for Government Charge	
for Uranum Enrochment Services	ia1
Comments on the Administration's Proposed Synthetic Facts Commen-	
cultation Program (Report) Deparament of Commerce's "SavEn-	140
ergy Citations" (Report)	024
Domestic Crude Oil Pricing Policy and Related Production (Report)	112
The Economic and Environmental Im- pact of Natural Gas Curtainments dur- ing the Waster of 1975-76 (Report)	062
The Economic and Environmental Im- pact of Natural Gas Curtailmonts	
During the Winter of 1975-76 (Tel-	063
Effects of a Change in Size Standeed for Smell Business Petroleum Refiners	
(Report) An Evaluation of Proposed Federal As-	149
sistance for Financing Commercial- zation of Emergence Energy	
Technologies (Report) An Evaluation of Protosed Pederal As-	151
sutance for Pstanzing Commercial- zation of Emerging Rorrgy	
Technologies (Tertmany) Federal Coal Research, States and	152
Problems to Be Resolved (Report) Fotenal Energy Administration Efforts	080
to Auda Parl Oil Supplies of Major Unity Companies (Project Utility) (Report)	126
The Federal Income Taxes of Class A and B Electric Utilities (Report)	115
Gelf Otl Corporation's "Double Dip- pung" on Crade Oil Product Costs	138
(Report) Implications of Deregulating the Prote	120
of Natural Gas (Report) The Impleations of Deregulating the	
Price of Natural Gas (Teathery) Industrial Energy Efficiency Program	134
Information on Castain OJ and Gas In-	296
dustry Oversight Responsibilities (Re- part)	105
Issues Reinted to Fortuge Sources of Oil for the United States (Report)	235
Manpower Needs of the Nuclear Power Industry (Report)	638
Need for Improving the Regulation of the Natural Gas Industry and Man- agement of Internal Operations (Re-	
pirt) Need for the Paderal Power Commu-	113
tion to Evaluate the Effectiveness of the Natural Gts Curtallevent Policy (Report)	130
Outlook for Foderal Goats to Acceler- ate Leading of Oil and Gas Resources	
on the Dater Confinential Shell (Re- port)	214
Problems in Regulating Natural Das Prices by the Federal Energy Ad-	214
minutation (Report)	139
Problems in the Federal Energy Office's Implementation of Emergency Pe-	

troleum Allocation Programs at gional and State Levels (Report)

Industry

Papera and Philase is Derringen Vaciar and Dia Chernens Sand Jones and Sand Sand Sand Sand Jones Sand Sand Sand Sand Sand Harris Sand Sand Sand Sand Sand Harris Sand Sand Sand Sand Harris Sand	077 077 078 172 102 079 084
Inflotion The Sifers of Gd Proc Increases on Small Business Contracts (Report)	123
Information Centers Croteshy Data Center	445
Environmental Information Analysis Conter (ITAC)	418
Environmental Resource Center (ERC)	49
National Energy Information Center (NEIC)	367
National Natural Resources Library april Information Systems (NNRLIS) National Salar Hosting and Cooling In- formation Center Technical Information Center (TIC)	422 339
Information Discardination Accession Solar Energy Confirmation and Management Property	302
The Energy Information Act, S 1864 (Tenceon)	178
National Program for Solar Heating and Cooling Dater Continental Shelf Gill and Gas	308
Development Improvements Needed in Determoring Where to Lease and at Whist Gallar Vision (Report)	215
Proposed Energy Inventory Act of 1974 (Later)	160
Information Exchange International Cooperation in Energy Research and Envelopment (Ten- Neomy) Technical Information Center (TIC)	245 427
Information Needs Actions Needs is improve Packets Bf- forts in Calcielag, Analysing, and Reporting Energy Data (Report A Bill to Establish a Netional Energy Information System (Factorey)	199 158

The Changing Role of the General Ac- counting Office in Energy Informa-		
ton and Data Programs (Speeck) Energy Data Collector in the Federal	186	
Government (Testwort) Invenue-ments Still Needed in Pedetal	157	
Energy Data Collection, Analysis, and Reporting (Report) insues in Leasing the Allantic Outer	152	
Contential Shell (Tetimony) Nanosal Ocean Policy Study (Tes-	213	
amony) Review of the leformatore-Gathering	212	
Practices of the Federal Energy Ad- mesoration (Report)	150	le
fernation Processing The Charging Role of the General Ac-		
esetting Office in Energy Informa- tion and Deen Programs (Speeck)	186	
Proposed Energy Investory Act of 1974 (Letter)	160	
feemation Services Center for Energy Studies (CES)	46	
Comments on the Energy Information Act. (Later)	170	
Energy Abstracts for Policy Analyte (EAPA)	441	
Energy Research, Development, and Demonstration leverstory	40	
Environmental Information Analytic Center (EIAC)	448	
Environmential Resource Center (ERC)	449	
ERDA Energy Research Abstracts (ERA)	438	
ERDA Headquarters Technical Li- brary	433	
Pedeval Energy Information Locator System (PEILS)	356	
Fossil Essergy Update	456	
FPC Library Informations Center for Energy Safety		
(ICES) Luquid Motel Fast Breeder Reactor	433	in.
Fuel-Cludding Information Conter (LMFBR)	450	
National Geothermal Information Re- scance (GR1D)	451	
National Program for Solar Heating and Cooling	308	
Review of the Information-Gathering Practices of the Pederal Energy Ad-		
ministration (Report) Special Reports Issued by the FPC and	120	
Pedenti Power Corpelation Publica- tions	411	in.
Technical Books and Monographs Technical Information Center (THC)	442 439	
formation Staroge and Retrieval		
formation Storage and Ratrieval Improvenents Still Needed in Peteral Ratry Data Collection, Analysis,		In
and Reporting (Report)	152	
RECON (REmote CONsole)	440	
formation Systems		
Actions Needed to Improve Pederal 25- forts in Collecting, Ansiyaleg, and		
Reporting Energy Data (Report)	159	

Infer

Infer

76 Te Inform in 1

. 23 Inferr

Subject Index

	A Bill to Establish a National Energy Information System (Testanony)	158
186	Consistents on the Energy Information Act (Letter)	170
157	The Energy Information Act, S. 1864 (Testimony)	176
152	Improvements Stall Needed in Federal Seergy Gata Collection, Analysis,	
213	and Reporting (Report)	182
	Review of the Information-Gathering Practices of the Federal Energy Ad- ministration (Report)	180
212	Rindscande (Algero	180
150	Inspection	
	Followup on Certain Monters Concern- ing the Inspection and Regulation of Outer Continental Shell Oil Opera-	
	tions (Report)	208
186	The Geological Survey's Instemate Action on Recommendations Con- geneing Importion and Regulation of	
160	Duter Continental Shelf Oil Opera- tions (Report)	222
	Improved Impection and Regulation Could Reduce the Pessibelky of Oil-	
443	spills on the Oster Continental Shelf (Report)	100
170	Improvements Needed in the Program for the Protection of Special Nuclear	100
441	Material (Report)	034
40	Opportunities for Improvements in Re- claiming Strip-Mined Londs under Coal Parchese Contracts (Report)	092
448	The Reactor Inspection Program of the Atomic Energy Commission (Report)	
449	Reports of the Review Committee on	001
431	Salety of Outer Continental Shelf Pe- trokom: Operations to the United States Goological Survey	251
453	Role of the International Atomic En- orgy Agoney in Safeguarding Nuclear	
356	Material (Report)	240
410	Shortcomings in the Systems Used to Control and Protect Highly Danger- uus Nuclear Material (Report)	062
433	an Harry Million (Adda)	-
	Insulation	
450	Analysis of the Energy, Ecotomic, and Budgetary Impacts of II.R. 6860 (Shoff study)	129
451	Energy Conservation (Tenneony) FEA Household Energy Survey	015
308	Project Conserve	344
180	Ways in Which Department of Housing and Urben Development Can Pro- mote Energy Conservation (Report)	
	most many constraints (Adon)	
411 442	Insurance	
439	Selected Aspects of Nuclear Power- plast Reliability and Economics (Re- port)	050
	Interagency Agreements	
152 440	Information on Certain Oil and Gas In- dustry Oversight Responsibilities (Re- port)	105
	Interopency Cooperation	

terogency Cooperation Access of the Pederal Power Commis-sion to Surress of Reclamation Re-cards to Insure Compliance with the

Cublect Index Perlana ABU Ta form Rfforts r

Energy I

Gent The Dos

Baur Ma Water

Problem Project

Proposed

Receipt

Bearing of Solar 1 Peoles

Interest

Finnera

Renaves

Internation

Assessor

Role of

Internation

Internation Assessor

Submissi

The Liqu

Can the

Internati Rescar

QA0's 1 Income

Pederal Power Act (Letter)	163	The Purcha Related
Bill to Establish a National Energy Information System (Testimony)	158	Impari I (Report)
Efforts to Encourage Conservation in the Pervate Sector (Report)	009	Ralo of the
Inergy Data Collection in the Federal Government (Teamony)	157	ergy Age Material
The Energy Information Act, S 1864 (Trainmony)	176	Role of the ergy Age
AO's Energy Role (Speech)	177	Material A Scienciary
reprovements Still Needed in Federal Energy Data Collection, Antlyse, and Reporting (Report)	182	pendenty die East U.S. Ferso
Noor Management of a Nuclear Light Water Reactor Safety Project (Report)	043	lopment Frozrans
Problems in Locensing Hydroclectric Propost (Report)	122	U.S. Intern Rights
eroposed Changes to the Atomic En-	124	Exercised
Carrying Out the Loquid Metal Past Breeder Reactor Demonstration Pro-		U.S Nacle (Report)
Ject (Report) Recoipt and Coordination of Natural	052	
Gas Reserve Dats (Report) Review of Selected Federal and Private	078	internotional Activities o
Solar Energy Accounts (Report) Soview of the Information-Gathering	197	and Mars Proposed A
Practices of the Federal Energy Ad- ministration (Report)	160	with Oth ecc7
		Propased I clear Mai
rest Finnecual Report on the Geothermel Resources Ocyclopment Fund	309	
Burther Comments on Atomic Energy	309	Economic World Oi
Operations of the Composed Arrenge- ment for the Liquid Metal Past Reseder Reactor Domonstration Pro- ject (Report)	000	A Semmery prodency die Test
epsyment Requirements of the Fed- eral Investment in the Tennessee Val-	000	U.S. Fasso
ley Authority's Electric Power System (Report)	099	Frograms
mational Agencies		International
Assessment of United States and Inter- national Controls over the Peneclai		Review of Plan of A
Uses of Nuclear Energy (Report) Role of the International Atomic En-	20	ternation
ergy Agency in Safeguarding Nuclear Maserial (Tenimony)	242	U.S. Intern Raba /
mational Banking		Exarcised part/
intentiation of U.S.S.R. Energy-Related Transactions for Congressional Re- view	1900	
	200	Affection of vices to 1
mational Cooperation Assessment of United States and Inter-		Notiear I Issues Relat
national Controls over the Peaceful Uses of Nuclear Energy (Report)	247	for the U Review of
Dan the U.S. Breeder Reactor Dovelop- ment Program Bo Accelerated by Us-		Plan of A
ing Foreign Technology? (Report) nternational Cooperation in Basegy	245	Role of the
Research and Development (Ter- timony)	246	ergy Age Material
The Liquid Metal Fast Breader Reactor Program-Past, Present, and Pature		U.S. Pinate lopmost
(Report)	045	Program

haic of Short-Supply, Energy- litens through the Export- Bank of the United States		International Trade The Experiment
Bank of the United States	236	Materials lafe (MINEC)
he International Atornic En-		The Furchase of S
i (Asperi) le International Atomic En-	240	Related Items t Insport Back of (Broard)
procy in Safeguardung, Nuclear 8. (Tenninang)	242	Subratision of U.S. Transactions fo
ry of European Views on De- ty of the Free World on Mid-		A Semenary of Ec
Col (Report) scall Assumace in the Deve-	234	pendency of the die East Oil (Re
t of Foreign Neckar Energy		de car or m
as (Report) mational Neclear Safeguards	229	Intersteta Commer
Are They Bring Effectively ed? (Unclassified Digast) (Re-		Natzeni Gas Rega depor Rate)
	243	Natural Gas Rog dapper Certificati
lear Non-Proliferation Policy	248	dieer Cermen
		Interstate Compac
al Cooperation in Science		Effect and Operate pacts Relating 1
of Solar Energy Coordination rangement Project	302	pace scenary r
Agreements for Cooperation		Interstate Gas Sal
ther Nations on Atomic En-	304	Actions Taken by Commission on
Distribution of Special No- latenals	202	trons Concernit Natural Gas In
antin 6		ment of leteron
ol Economic Relations		Need for Improve the Natural Ga
impleasaes of Current Dil Prices (Sigf statio	237	ageness of Inte
ry of Barepean Views on De-		
ry of the Free World an Mid- t O(1 (Report)	234	Interstate Relation
noal Assistance in the Oave- t of Porcign Nations Energy		The Coastal Zon gram As Uson
na (Report)	239	
		inventories.
ol Energy Program C Volumery Agreement and		Balk Faela Need 'I (Report)
Action To Implement the In- cal Energy Program	276	Crude Oil Enri tion)
		Doling Equipers
ol Orgonizations mational Nackar Safegaards		Energy Research Demonstration
Are They Being Effectively ed? (Unclassified Digest) (Ar-		Nuclear Material
	243	Propanc/Batane / Proposed Emergy 1974 (Lense)
ol Relations		Shortcomings in Control and Pre-
n of Uranium Enrichment Scr- Puel Foreign and Ocmestia		ous Neckar Ma
r Researces (Report) lated to Perroga Sources of Oil	228	
Unhad States (Report)	225	Inventory Manage Bulk Feels Need 7
f Volustary Agreement and Action To Implement the In-		(Report)
and Energy Program	27.6	

a teconomicaal Atomic Bancy in Safeguarding Nuclear (Report) olal Assistance in the Deve-

of Pareign Nuclear Energy Programs (Report)

Spectation of Coal (Reports 244 nals Information System NECO 322 webase of Short-Supply, Except. ated lights through the Experi or Back of the Helicol States ations of USSR Energy-Related esections for Congreational Rementry of European Views on Dedeary of the Free World on Mid-Fau Oi (Report) ta Commerce ral Gas Resulations System (Proter Rent) ni Gas Regulation System (Proer Certificate) 415 te Compacts and Operations of Instantant Comts Relating to Natural Gas 292 te Gas Salas ins Taken by the Pederal Peter managers on Prior Recommends a Concerning Regulation of the taral Gas Industry and Manage-10 in of leternal Operations (Report) for Improving the Regelstrow of Natural Gas ledustry and Marywest of Internal Operations (Re-110 te Rainflans Contal Zone Management Prom An Uncertain Patient (Report) 142 Field Need Ya Br Better Managati (tring 014 e Oil Entitlements (Bqualitai) 352 ing Economic Production Ser-340 ev Research, Development, and manutration Inventory 40 car Material Management Plan 126 349 and/Rataon Allocation System osed Energy Inventory Act of 160 spontings in the Systems Used to strol and Protect Highly Danger-Nuclear Material (Report) ry Monoerent

Fuels Need To Be Better Managed 014 (seed

Investments

24

	California's Central Vallay Project- Processed Power Rate Increase (Ar-	
	part	156
	Economic Implications of Current	
8	World Oil Prices (Shaff shuly)	237

Invationate

211

-

233

233

246

165

349

025

349

Insues Related to Foreign Sources of Oil for the United States (Report) Repayment: Reparements of the Pad-	:
eral investorent in the Tenaessee Val- lay Authority's Electric Power System (Report)	¢
Irea Alfeestics of Unasum Excoherent Ser- woon to Fael Porngo and Domesic Naclear Resman (Report)	2
Israel Allocation of Unantian Excidential Ser- vices to Fiell Foreign and Damestic Nuclear Resenant (Expert)	,
Jepon Con the U.S. Brooder Reactor Develop- recell Program Re Accelerated by Us- ng Foreign Technology? (Report) International Conferences in Energy Relearch and Development (Re- among)	2
Jet Fuel Cast and Pricing System OECD Energy Demond Model Refinery Cost Pastheesgh Regional Econometric Demand Model and Auto Streaments Model (RD4)	37 36 24
Subpart L	38 36
Knetvcky Problems Caused by Coal Mixing Near Federal Reservoir Projects <i>(Report</i>)	07
Koresenne Cost and Pricing System Subpart L	37- 341
Lober Supply Manpower Needs of the Nuclear Power Industry (Appart)	038
Lond Lasd and Minerel Conservation Infor- mation System	336
Land Rectametian Administration of Regulations for Sur- tice Exploration, Mitting, and Recta- mation of Public and Indias Cool Lands (Report)	092
Department of the Internet's Proce- dates for Approving Coal Mining Plans (Report)	228
Depictment of the internet's Views of Contraction on Administration of Regulations for Surface Exploration, Musing, and Reclamation of Public and Indust Coal Lands (Resout)	095

Stripmong and Land Roclamation In- formation System	435
Land Trensfors Outer Continental Shell Poss-Sale Sys- tem	331
Lond Usa Admentationen of Regulations for Sir- fron Replemins, Minzg, and Reeli- mation of Public and Indian Coal Lands (Report) Agreement between the Societary of the Internet and Officials of the State	073
of Unith Portaining to Oil Shale Leases (Leaver)	209
Geologie Surveys, Investigations, and Research Program Imported Policies and Procedures for the	327
Explorations and Development of Ostor Connermal Stoff Resources (Ternessur) Indian Network Resources-Part II Cost, Oil, and Gas-Benter Massage- ment Can Improve Developments and	232
barnase Income and Employment (Report) Mineral Land Assessment	225 321
Problems Caused by Coal Mining Near Fadarat Reservoir Projects (Thr- Annany) Role of Poteral Coal Resources in	676
Mosting Energy Goals Noods to be Determined and the Lessing Process Improved (Report) Tracs-Alasko Od PipeliusProgress of	226
Construction through November 1975 (Report)	084
Loser Fusion Efforts to Orrolog Two Naciesr Con- cepts That Could Greatly Insprove This Ostanry's Fusier Energy Situa- tion (Report)	041
Lolin America Issues Related to Pareign Secrets of Oli for the United States (Report)	225
Lense Monagenenti Onsbare Lesse Managenenti Program Sindy for the U.S. Ocologisal Survey	250
Leesas Accelerated Outer Continental Shelf Development (Textwory) Administration of Regulations for Sur-	216
face Exploration, Mining, and Rosle- Itation of Fublic and Indian Coal Lands (Report)	073
Agreements between the Secretary of the Interfor and Officials of the State of Utah Pertaining to Oil Shole Leases (Letter)	209
Cost Laura Data Summ	407

Department of the Interior Study of Shut-In Oil and Gas Well Completions and Leases-GAO Observations (Report)

224

Opperation of the Interior's Views of Comments on Administration of Comments on Administration of Regulations for Surface Exploration Mising, and Reclamation of Public and Indian Coal Lands (Report) 025 Federal Coshi course Program of the Department of the Interior (Resert) Followap on Certain Matters Conserving the Inspection and Regulation of Outer Continental Shelf Oil Operatings (Renew) Following Review of the Naval Prtroleun Reserves (Report) Improved Inspection and Regulation Cruid Reduce the Pessibility of Oilmills on the Outer Continental Shelf /Passer] Losic Management System 333 Leasing of Minerals on Public Leads (Report) Oil and Gas Leasing on Federal Lands (Reserv) 210 Outer Continental Shelf Oil and Gas Development Improvements Needed in Octormining Where to Lease and at What Dollar Value (Report) 218 Onter Continental Shalf Post-Sale Suatern 221 Provisions of Navajo and Hopi Cosl Leases (Report) 207 Refunds on Outer Continental Shelf Leases 240 Role of Federal Cost Resenrous in Meeting Energy Goals Needs to be Determined and the Lassing Process Improved (Report) Learner (Missort) Conservation Division Task Force Renon on the Oothers Lesse Manager, ment Program Study for the U.S. Goological Survey 249 Onshore Lesse Management Program Stady for the U.S. Coolneicel Survey 250 Royalty Accounting System Study of Solid Mineral Lessing Activities Legass (Notural Gos) Review of Royalty Accounting System for Onshere Oil and Gas Leases 193 Leases (Petrolaum) Review of Rosalty Accounting System for Osshore Oil and Gas Lesses 253 Loosing Accelerated Outer Continental Shell Development (Testimore) 21.6 Apothesated Outer Continental Shell Development (Testimony) Development of Federal Coal Resources (Testimony) 223 Development of the Outer Continental Shelf Possil Pael Resources (Ter-Assess/ Further Action Needed on Recommendations for Insproving the Administration of Federal Coal-Leaning

Energy Digest SEPTEMBER 1977

217

Program (Report)

Leg

GAO's Energy Role (Speech)	177
improved Policies and Procedures for the	
Exploration and Development of Outer Continental Shell Researces (Jostonian)	232
issues in Lenning the Atlantic Outer	A.76
Continental Shall (Tertwany)	213
Duter Continental Shelf Sale #35	
Problems Selecting and Evaluating Land to Lonse (Report)	221
Dutlook for Faderal Coals to Acceler-	201
ate Leasing of Oil and Gas Resources	
on the Outer Continental Shelf (Re-	
port) Problems in Menssfring, Developing,	214
and Using Genthermal Resources	
(Report)	199
Retional Exploration and Development	
of Outer Continental Shelf Resources	220
1720060039	330
Islation	
Communer on Prior Recommenda-	
tions Concerning Regulation of the	
Notural Gas industry and Manage-	
ment of Internal Operations (Report)	147
(Iternative Energy Proposals (Ter-	165
Alternative Faels for Avistion (H.R.	
12112) (Tenasaaa)	154
Amendment of the Federal Energy Ad-	
ministration Act of 1974 and the Ea- tension of Its Espiration Date (Letter)	173
Analysis of the Essergy, Economic, and	1/3
Annysis of the Energy, sectionice, and	

Budgetary impacts of H.R. 6860 (Sheff ands)

120

-

150

195

131

170

2.49

142

024

Annual Report on the Columbia River Power System

- A Bill to Establish a Netlonal Energy Information System (Textonom)
- A Bill to Eatend the Federal Energy Administration Act of 1974 (Tatimoty)

Budgeting of Poderal Plasmilal Incontives for Energy Development (Tesalmony)

Comments on Energy Research and Development Administration's Proposed Arrangement for the Clinch River Breeder Research Damonstration Pisat Proget (Report)

Comments on H.R. 11212, 93rd Congross, a Bill to Parther Research, Development, and Commercial Demonstrateous in Geothermal Enorgy (Lewe)

- Comments on Proposed Legislation to Change Basis for Government Charge for Untriam Enrichment Services (Report)
- Comments on the Energy Information Act (Latter)

Conservation Division Task Force Report on the Outbore Lease Management Program Study for the U.S. Geological Survey

Developing and Commercialising Energy Technology (Tealersty) Davidoring and Commercialising Re-

ergy Technology (Technoly) Energy Conservation at Government

Field Instaliations' Progress and Problems (Report)

Barray Conservation Financias /Terd'energy) Energy Date Collection in the Federal Government (Tetamena) The Energy Information Act, S. 1864 (Tanjesand Energy Research and Development Advanstration's Costingency Plan for More Enrichment Capacity at Portsmouth, OH (Report) An Evaluation of Proposed Pederal Assustance for Financing Commercials antion of Emerging Energy Technologies (Report An Exploration of Propaged Sederal Assistance for Financing Commercialization of Emerging Energy Tophnologies (Testansay) Evaluation of the Administration's Proposal for Government Assistance to Provide Unative Enrichment Groups (Report) Messages Infrastructure in Reverse Development Areas of the Western States (Speech) Future Energy Domind (Speech) GAO's Energy Role (Speech) Montament of and Plans for the Naval Petroleum Reserves (Report) National Standards Needed for Resdential Energy Conservation (Report) Opportunities for Improvements in Reisiering Step-Mined Lands under Coel Purchase Contracts (Recent) Procurement of Porcign and Comessio Petroleum by Department of Defense (Report) Propesed Energy Inventory Act of 1974 (Lever) Using Solid Wants to Conserve Resources and to Create Energy (Report) Librarias BROA Readmanters Technical Libeary FPC Linny Library of Record Bestric Power National Goothermal Information Resource (GRID) National Natural Resources Library Information Systems (NNRLIS)

157

126

C52

151

152

177

227

019

072

160

m

34

451

316

066

034

122

055

License Agreements

Considerations for Commercializing the Liquid Metal Fast Breeder Restor (Report)

Licantee Responsibilities Improvements Needed in the Program

for the Protection of Special Nuclear Material (Report)

Licontes

Analysis of the Energy, Boonamia, and Budgetary Impacts of H.R. 6860 (StayFrandy) Development of Interagency Relation-

ships in the Regulation of Nuclear Materials and Facilities (Report)

Effect and Operation of Interstate Compacts Relating to Natural Gas Natural Gas Regulation System (Prodecer Certificate) 415 Natural Gas Regulation Systems (Pape-Inte Certificate) 417 Problem Areas which Could Affact the River Reeder Resour (Surff sunfr) Problems in Locensing Hydroelectric Projects (Report) Proposed Changes to the Atomic Eneray Commission's Arrangement for Carrying Out the Liquid Metal Fist Bronder Researe Demonstration Prolocs (Reserv) Reducing Nuclear Powerplant Londtimes Many Obstocles Remain (Re-2011 Security Systems 45 Commercial Nualear Powerplants (Report) Sequeyah Neeless Plant (Staff study) 643 Status of Pending Hydroelectric Apphostiens. 410 Licensing Protecting Special Nuclear Material in Transit: Improvements Made and Existing Problems (Report) Licensing Regulations Poor Management of a Nuclear Light Water Reactor Safety Project (Report) Life Cycles Energy Efficiency Ratios of Window Air-Conditioners (Report) cos Lighting Storay Conservation in Federal Office Buildings in California (Report) Light Water Reactor Post Massrement of a Nuclear Light Water Reaster Safety Project (Report) This Country's Most Expensive Light Water Reactor Safety Test Facility (Report) Lignite Ceal Data Base Liquefied Natural Gas Information on the Proposed Alsaka Oil Pipeline (Record) Natural Gas Shorasae The Role of Imported Ligarfied Natural Cas (Report) 241 Liquefled Petroleum Gos Cost and Pricing System

Liquid Matel Fest Breader Reoctors Liquid Motel Fast Breader Reactor	
Fuel-Cladding Information Center (LMF88)	450
Liquid Mone First Breader Reacter Plant Patameter Information Sys- tem	425
Literature Reviews Hox Solar Largy Was Treated in the AEC Charman's Report, "The Na- non's Energy Petune" (Report)	195
Loos Guorantees Bidgring of Foferal Emissical Incen- wes for Energy Development (Te- terony) Energy Conservation Firmency (Te- terony)	150 027
Loans Energy Conservation Financing (Ter- awaray) Financial Report on the Grothermal Resources Development Fand	627 369
Submission of U.S.S.R. Energy-Related Transections for Congressional Re- vare	280
Location National Water Data Exchange (NAW- DEX)	325
Magnelohydrodynarola Generalles Plans for Construction of a Magnetehy- drodynamics Test Faolity in Man- tins (Repert)	085
Major Fuel Burning lastelletices Major Fuel Borong Insullation-Early Fishering Protein Identification (EPPE) Major Fuel Birming Installations (MFBE)	358 355
Menorgement Evaluation Revew of the Information-Gathering Products of the Federal Energy Ad- ministration (Report)	180
Monogeneed Information Systems Booki ceping System Pederal Biforts to Conserve Fuel in the Movement of Mea and Materials (Re-	420
pard Information-Gathering Activities of the Nuclear Regulatory Commission (Re- port)	185
Official FPC Files and Records Research Information Management System (RIMS)	401 324
Monogement Methods Need for the Federal Pawer Commis- sion to improve the Regulation of the Natural Gais Industry and Manage- shock of its Internal Operations (Ter- Monay)	114

Monoperatol Systems The Layad Mocal Fort Breeder Reactor Program-Past, Present, and Facure (Report)	945
Mangowie Polsal Fergy Admustration Efforts to Aufin Fiel OM Supplies of Major Unity Companies (Project Usinity) (Report Resource of the Operations Downon of the Poleral Energy Administration (Report)	126 115
Manpewer Policy The Economic Impact of Energy Ac- bases Manpawar Needs of the Nuclear Power Industry (Repen)	255 038
Monpower Training Programs Manpower Noads of the Naciase Power Industry (Report)	035
Monpower Utilization A lati to Extend the Prdent Reargy Administration Act of 1974 (Te- tensor) The Federal Energy Administration? Programs in Redwering Ios Compli-	179
ance and Enforcement Program (Re- port) Marpower Needs of the Nuclear Power Industry (Report)	120
Staffing of Pederal Energy Admenutes- user's Office of Communications and Public Allinia (Report) Strategie Potroleum Reserves Program- Wide System (SPR)	144 363
Monum Oppertunities for More Effective Use of Animal Manure (Report)	025
Mops Special Reports Issued by the FPC and Federal Power Commission Publics- trees	411
Marine Pollution Recovery of Expenses from Cleanap and Investigation of Oil Spills (Leaney	107
Markeling Pedrail Hydrodectric Pinns Can In- crues Power Sales (Repert) Market Shares System Parker Paster Requirements Imposed by Pedrail Power-Marketing Agen-	201 370
des en their Customers (Letter)	304
The Economic and Environmental Im-	

pact of Natural Gas Custalitieses dar- ing the Wester of 1975-76 (Report)	082
Federal and State Solar Energy Re-	062
search, Development, and Demen- stration Activities (Report)	200
Materials Management	
Seview of the Progress and Problems of Resource Recovery Since the Passage	
of the Resource Recovery Act of 1970	
(Zendmony) Role of the International Atornic Ep-	016
orgy Agency in Safeguarding Nuclear	
Motorial (Report) Role of the International Atorne En-	240
cray Ageney in Safesuarding Nuclear	
Moterial (Pentworp)	242
U.S. International Nuclear Safeguards Rights. Are They Being Effectively	
Evercured? (Unclassified Digest) (Re-	
part	243
Mathematical Madels	
Crude Oil and Natural Gas Production	
Model Crude Oil Pricing Model (DCROPS)	392
Crate On Philing Meter (DCROPS)	397
Beatricel Planneal Forcessing Model (BSB Model, BUPINANCE)	
PEA Crude/Transportation Model	377
Fiscal Itspact of Energy Price Changes	
on State and Local Government Par- chases of Goods and Services	395
Income Distribution Impact Model	399
International Coal Supply Model	387
International Oil Supply Model	368
National Coal Model (RMAC) Natural Gas Distribution Model	579 419
Natural Gas Shortage Model	361
Neoclassical Regional Growth and En-	
ergy Price Madel Oli and Gas Supply Model	389 278
Flune Model	342
Reserves Allocation and Mine Cost	
Model (RAMC) Severance Tex Model	380
Short Term Petroleum Demand Free-	396
casting Model	383
Site Distribution Model	354
Metals	
Coursedity Data Summanes and Min-	
eral Estimates	266
Minng and Minerals Policy	267
Middle East	
Alloration of Uraniam Enrichment Ser-	
vices to Puel Foreign and Domestic Nuclear Resonant (Report)	235
inner Related to Forege Sources of OI	
for the United States (Report) A Summary of European Views on De-	235
pendency of the Free Warld on Mid-	
die East Oil (Report)	234
Miles Per Gallen Federal Biforts to Conserve Energy	
(Report)	040

Milibory The Department of Defense's Conser- vation of Potroleum (Report)	012	Problems Co ,Federal (amony)
Inspectation (Report) Inspectation (Report) Approximates Needed in Controls and Approximating for Ground Vehicle Pe-	012	1110()
troitenn (Report)	018	Minerals Land and M mation Sys
Millitary Bases Recycling of Matemals	260	Miseral Lon Minerala (MINFO)
Solid Waste Management, Collection, Disposal, Resource Recovery, Recy- eling Program	257	(MINPD) Mining Rese Out Shate/Be
		Sevenade T
Military Supplies Bulk Fools Need To Be Better Managed (Report)	014	Mines Compedity
The Department of Defense's Cansor- vation of Potroleum (Report)	012	ersi Estim Mining and
Strategie Poiroleum Reserve Plan	289	
Milling Cartian Actions This Can Be Taken to Help Improve This Nation's Unarian Particle (Report)	061	Mining Administrati face Explo mitteen of
Mine Development		Lands (Re Certain Aeti Help Impr Picture (R
Further Action Needed on Recommen- dations for Impoving the Adminis- tration of Federal Coal-Louing Program (Report)	217	Department Comments Regulation Meting, an and Indian
Mineral Leases		Federal Con Department
Leasing of Minerals on Public Lands (Report)	231	Opportunitie cloiming 2 Coal Purel
Minerological Research Land and Mineral Conservation Infor- mation System Mineral Resources	326	Mining Laose Indan Nat Coal, Oil, mest Can Increase I Gaseri
Mineral Resources Cosmodily Data Summarias and Min- oral Estimates Department of the Intecior Soudy of Shut-In Oil and Oas Well Comple-	266	Mining Resea Misure Rose
tians and LonsesGAO Observations (Report)	224	Research I System (R
Geologie Surveys, Investigations, and Research Program	327	Models
Indian Natoral Resources-Part II Coal, Dil, and One-Better Manage- ment Can Improve Development and		Review of the ence Evalue Short Term
Increase Income and Employment (Report) Minute and Minerals Policy	225 267	Model
Role of Pederal Coal Resources In Meeting Energy Gasts Needs to be Determined and the Leasing Process Improved (Report)	226	Monotary Pal Economic World Oil
		Money Suppl
Minerel Rights Problems Caused by Cost Mining Near Federal Reservoir Properts (Report)	075	A Summary pendeasy die Baat C

Energy Digest SEPTEMBER 1977

		Problems Caused by Coal Mutung Neur	
ur-		"Federal Reservoir Projects (Ter-	
	012	(mong)	076
and .			
Pc-			
	018	Minarals	
		Land and Mineral Conservation Infor- mation System	326
		Miseral Lond Assessment	321
	240	Minerala Information System	321
~	100	(MINFO)	322
68°		Minut Research	323
	257	Oil Shale/Baztonito Tido Clearance	330
		Severage Tax Model	376
god	014	Mines	
100	014	Commodity Data Summaries and Min-	
	012	crel Estimates	255
	289	Manag and Materials Policy	267
		Mining	
		Administration of Regulations for Sur-	
10		face Exploration, Mining, and Rocla-	
10	061	mation of Public and Indian Coal Lands (Report)	093
			043
		Certain Actions That Can Be Taken to Help Improve This Nation's Uranam	
		Picture (Report)	061
es.		Department of the Intence's Views of	
119-		Consistents on Administration of	
ing		Regulations for Surface Exploration,	
	217	Muring, and Reelemation of Public and Indian Coal Lands (Report)	095
		Federal Coal-Leaning Program of the	449
		Department of the latencer (Report)	221
nds		Opportunities for improvements in Re-	
	211	cloiming Strip-Mised Lands under	
		Coal Purchase Costnets (Report)	092
		Mining Leases	
Ser-	326	Induc Natural Resourcest-Part II.	
		Cosl, Gil, and Gas-Botter Manage-	
		ment Can Improve Development and Introase Income and Employment	
		(Report)	225
un-			
	266		
of		Mining Research Mixing Research	323
ale- one		Research Information Management	
034	224	System (RIMS)	324
bee			
	327		
		Medels	
ge-		Review of the 1974 Project Independ- ence Evaluation System (Report)	178
ent		Short Term Coal Derand Porcessing	174
era	225	Model	376
	267		
In			
be		Monstory Policy Economic Implications of Cerrent	
1035		World Oil Prices (Steff mady)	237
	226		
		Money Supply	
cer		A Summary of European Views on De- pendency of the Free World on Mid-	
-1)	075	die East Dit (Agert)	224
1977			

Mentana Plans for Construction of a Magnetohy- drodynamics Test Fooliky in Mon- tans (Report)	086
Mater Vehicle Polistion Control Pederal Effects to Improve the Feel Economy of New Automobiles (Re- port)	630
Mator Vshicles Dual Kud Frequent (Papart) Podent Effocts to Conserve Find in the Movement of Men and Materials (Re- pert)	001 004
Notional Aeronautics and Space Administration Censervation Drisson Task. Force Ro- port on the Onabree Lane Manage- ment Program Spady for the U.S Geologoni Survey	249
Notional Cool Medial Reserves Allocation and Mize Cost Model (RAMC)	380
Notional Defance Capability of the Naval Petroloum and Oil Shale Reserves to Meet Emo- group Oil Needs (Repert) Capability of the Naval Petroloum and Oil Shale Reserves to Meat Emer- gency Oil Needs (Terrivority)	072 073
Notional Energy Plan National Plan for Energy Research, Development, and Demonstration: Creating Energy Chouses for the Pe- ture	428
National Uranium Resource Evaluation Program U.S. Usamum Resources and Supply	432
Notional Water Data Exchange National Water Data Exchange (NAW- OEX)	325
Natural Gas Accelerated Outer Continents Shif Development (Tenimony)	216
Accelerated Outer Continental Shelf Development (Teolmony)	219
Divergence (Jacobian) Actions Then by the Paderal Never Corenission on Pror Reconstruction tions Concerning Regulation of the Natural Gas Industry and Manage- ment of Intened Operations (Rapert) Altecrative Energy Propasals Deve- loped by the Gonzul Accounting Of- fice In Response to Congruidenti Instructions: Proceeding and Supporting	147
Analyses (Testisses)	160

210	Noturol Gas Liquids (NGL) Problems in Regulating Natural Gas Prices by the Federal Energy Ad- ministration (Report)	139
218		
231	Natural Gas Pipelines Annual Report of the Secretary of Tran- sportation on the Administration of the Natural Gas Pipeline Safety Act of 1968	277
214	Corporate, Financesi, and Economic In- formation Pile (RISCEID) Gas Supply Indicators Natural One Company Operating Infor-	402 403
139	mation File Natural Gas Distribution Model Natural Gas Regulation System (Pipe-	413 419
a77	Inst Rate) Natural Gas Regulation System (Pro- doorr Certificate)	416
349	Neteral Gas Regulation Systems (Ppp- line Certificate)	417
256	Natural Gas Prices Natural Gas Regulations System (Pro-	
078	dacer Rate) Natural Gas Regulation System (Pipe- line Rate)	414
172	Natural Gas Production	
251	Crack Oil and Natural Gas Production Model Dri and Gas Straty Medal	378 378
252	Natural Gas Reserves	
	Cas Supply Indicators	460
089	Natural Gas Shortage: The Role of Im- ported Liquefied Natural Ona (Report)	241
m	Oil and Gas Supply Model Progress and Problems in Developing Noticer and Other Experimental	378
179	Techniques for Recovering Natural Gas in the Rocky Mozatain Area (Re- part)	077
282	Naturol Gus Sales Natural Gas Regulation System (Pro- deser Cottificate)	415
83	Natural Gas Shortagas The Ecotomic and Environmental Im- pact of Natural Gas Curtailments dur- ing the Winter of 1975-76 (Report)	
120	ing the Winter of 1975-76 (Report) Natural Gas Shortage Model	C62 282
49	Natural Gas Starage Underground Gas Storage System	971
	Natural Resources Cost Lesse Data System	529
119	Domestic Energy Resource and Re- surve Estimates-Uses, Limitations, and Needed Data (Report)	222
19	Energy Reorganization Legislation (Textmosp)	194

Amount of Natural Gas that Could Be Released from Federal Price Regulauons upon Experision of Contracts from 1975 through 1985 (Tenseony)

Oil and Gas Lossing on Federal Lands

Outer Contropotal Shelf Oil and Gas

Owteek for Poderal Goals to Acceler-

ate Lessing of Oil and Gas Resources

to the Other Continental Shelf /Pa-

Problems in Resultance Natural One

Paragent and Problems in Developing

Nuclear and Other Experiments

Technologie for Recovering Natural

Oas in the Rocky Mountain Area (Re-

Property/Rotane Atlanation System

Quarterly Report of Production from the Navai Petrelears and Oil Shale

Bereist and Croodination of Natural

Reliable Contract Sales Data Needed for Properties Amounts of Natural

Gas That Could Be Deresulated (Re-

Benoris of the Beniry Committee on

Safety of Outer Continental Shalf Po-

treleast Operations to the United

Reports of the Work Gross on DCS

Review of FPC and FEA Actions in As-

Special Reports Issued by the FPC and

Statutioal Data on Petroleum and Pe-

The Econorris and Environmental Im-

pact of Natural Gas Contailments dur-

ing the Winter of 1975.76 (Recent)

The Economic and Environmental In-

Need for the Federal Power Commis-

Review of FPC and FEA Actions in Ap-

sessing the Impact of Natural Gas

Curtailments during the Winter of

Natural Gas Distribution Medel

Natural Gas Distribution Model

sion to Evaluate the Effectiveness of

the Natural Gas Curtakment Policy

pact of Natural One Cartaliments During the Winter of 1975-76 (Tar-

trolean Preducts (Report)

Federal Power Consulation Publics.

sessing the Impact of Natural Gas

Curtailments during the Winter of

Gas Reserve Data (Report)

States Geological Survey

1976-77 (Levin)

Notural Gas Curtailments

(Report)

1976-77 (Letter)

Notural Gas Damand

Safety and Palitation Control

Prices by the Federal Engrav Ad-

Land in Lease (Report)

ministration (Amore)

Development Improvements Needed

in Determining Where or Lease and at What Dalar Volue (Report) Outer Continential Shell Sale #35: Problems Selection and Evaluating

(Recent)

anet

197

222

224

245

267

287

195

155

225

105

213

356

281

412

357 During

.....

130

114

386 Natural Gas Distribution

Department of the Internar Study of
Shat-In Oil and Oas Well Comple-
tues and Leases-GAD Disgraphion
(Reserve)

- Doal Fuel Program (Report)
- Effect and Operation of Interstate Comparts Relating to Natural Can
- Employee Disclassres under the Eoergy Policy and Conservation Act
- Energy Information Reported to Conpress its Required by Public Law 93-319
- Federal Associance to State and Local Gavanteents in Developing and Adsumsteining Energy Programs (Report)
- Financial Discionares by Employees Performing Functions under Energy Policy and Conternation Act
- Fossi Energy Prearest Report
- Feare Energy Denand (Speech)
- GAO's Energy Rale (Spreck)
- Implacetores of Deregalating the Price of Natural Cas (Asyan)
- The Implications of Desegulating the Price of Natural Gas (Testresony)
- Importance of Peanenal Data to Evabatting Foderal Energy Programs (Speech)
- Improvements Needed in the Federal Enhanced Dil and Gas Recovery Research. Development, and Damasstration Program (Report)
- Indus Natural Resources-Part II Coal, Oil, and Gos-Detter Management Coa Improve Development and Increase Income and Employment (Appen)
- fefermenten en Certain Oll and Gas Industry Oxecught Responsibilities (Repert)
- Issues to Leaving the Atlantic Outer Controlated Shell (Texamony)
- Major Feel Berring Installations (MFBI)
- Management of and Place for the Naval Petroleum Reserves (Report)
- Monthly Energy Review
- Natural Gas Company Operating Information File
- Neteral Ges Curtaitments
- Natural Gas Industry Evaluation Sys-Many
- Need for Improving the Regulation of the Natural Ges Industry and Manegements of Internal Operations (Repon)
- Need for the Federal Power Commission to Evaluate the Effectiveness of the Natural Gas Consiltenest Polley (Rept.n)
- Need for the Federal Power Commistion to Improve the Regulation of the Natural Gas Industry and Management of Its Internal Operations (Perimmergy OECD Energy Demand Model
- Official FPC Files and Recards

Exploration of National Petroleum Re- serve in Alaska
The Federal Word Energy Program (Re- part)
Improved Policies and Procedures for the Explanation and Development of Onter Contractual Shell Resources (<i>Testoware</i>) Immergeneratis, Nitellah In, the Policial
Eahanted Ol and Gas Recovery Ro- sarch, Development, and Demon- stration Program (Report) Mailing and Menerals Policy
National Energy Policy An Agenda for Antlysis (Report)
National Natural Resources Library and Information Systems (NNRLIS)
Cul Shale/Bestonite Title Clearance Progress of and France Plans for Ex-
ploration of National Petroleum Re- serve in Alaska
Report to the Congress on Matters Con- tained in the Heltum Act
Natural Resources Conservation All Purchases and Condomnetion Pro- ceedings Regrating the Naval Pe- troleum and Oi Shale Reserves
Land and Mmerel Conservation Infor- mation System
Protection of Oil Reserves
N
Noval Contracts Management of and Plana for the Naval Petroleann Reserves (Report)
Naval Petroleum and Oli Shale Reserves Quarterly Report of Productors from the Naval Petroleum and Od Stale
Reserves
Noval Petroleum Reserve Number 4 Strategie Petroleum Reserve Plan
Navigation Reports of Costs of Certain Structures on Nongovernment Waters
Novy The Nevy's Practice of Discharging Paul at Sea (Report)
New Jersey The Reconstition of Environmental Im- pact of Neural Gas Certralineers dar- ing the Winter of 1975-76 (Report The Secondrul and Secondaria Im- pact of Natural Gas Certailments Daring the Winter of 1975-75 (Ra- through the Winter of 1975-75 (Ra- the Winter of 1975-75 (Ra- through the W
New Mexico Federal and State Solar Energy Re-

Energy Digest SEPTEMBER 1977

North Coroling The Bootome and Environmental Impart of Natural Gas Contailments day. ing the Winter of 1975-76 (Report) The Besporter and Environmental Impett of Natural Gas Cuttalmosts During the Winter of 1975-76 (Ter-083 North Slope (AK) Monagement of and Pions for the Neval Petroleum Reserves (Resert) 227 Nuclear Energy Arrengenet of Human Senter and International Controls over the Praceful Uses of Neelear Energy (Report) Bellefoste Nuclear Plant (Staff study) Balact History Tables 217 Certain Actions That Can Be Taken to fertion Actions That Can be ranke to Help Improve This Nation's Uranism Pietare (Repart) 061 Connents on Energy Research and Development Prepared Arrangement for the Christ River Broeder Reseter Damorstration Plant Project (Report) Comments on Proposed Legislemen to Chaper Basis for Government Charge for University Epimelyment Services 121 (Report) Comments on Selected Aspects of the Administration's Proposal for Govcrementel Assistance to Private Unnium Ermehment Greate (Report) 145 Considerations for Commercializing the Locald Metal Past Brender Resoter (Report) ~ Controlled Fusion Assame Data Cen-444 Cost and Schedule Estimates for the Nation's Pirst Liquid Metal Post Breeder Reactor Demonstration Powcretant (Report) Criticality Data Center 445 Developing and Compercialities Energy Technology (Tenterony) 145 Ecological Segnets Information Center (ESC) 444 Efforts to Develop Two Nuclear Conorgin That Could Greatly Improve This Country's Future Increy Situation (Separty 0.48 The Energy Resceech and Development Administration's Proposed Contract with Project Management Corporation, Commonwealth Edison, and the Tennessee Valley Authority (Record) ERDA Energy Research Abstracts (ERA)

starsh. Development, and Domon-

part of Natural Gas Curtailezents der-

200

stration Activities (Report)

270

393

155

247

101

319

110

271

244

259

326

222

258

020

082

New York The Essentrate and Essentemental In-

Nuclear Energy

Proposal for Government Assistance	
to Private Uceasan Bornchment Groups (Testerony)	053
Evaluation of the Publication and Dis- induition of "Shedding Light on Posts shout Nuclear Earry" (Report)	054
Evaluation of the Status of the Past Plax	
Test Facility Program (Report) Information on Selected Aspects of the	965
Power Operations of Tennessee Vol- ley Authority (Report)	167
International Energy Evaluation Sys- tem (IEES)	384
Liqued Metal Fast Ecceder Reactor Program-Past, Present, and Future (Testencey)	046
The Liquid Metal Past Breeder Reactor. Promises and Uncertaminies (Skeff mode)	049
Management of the Atomic Entrgy Commission's Controlled Thermono-	
elear Research Feogram (Report) National Energy Policy An Agenda for	195
Analysis (Report) National Plan for Energy Research,	191
Development and Demonstration Fianning and Analysis	305
Nuclear Regulatory Commission's Pro- gram for Evaluating Environmental	
impacts of Construction and Opera- tion of Nuclear Powerplants (Report)	051
Operating Cost and Environmental Reduction Memorina at the Shin-	
progport Atomic Power Station (Re- part)	042
Poor Management of a Nuclear Light Water Reactor Safety Project (Report)	
Progress and Problems in Developing Nuclear and Difter Experimental Techniques for Recovering Natural Gas in the Recky Mountain Ares (Re-	063
part) Proposed Agreements for Cooperation	097
with Other Netions on Atomie En- ergy	904
The Proposed Contrast for the Clinch River Breeder Resetor Project (Tes- dinary)	058
Proposed Distribution of Special Nu- elear Materials	300
Proposed Revisions to the Criteria and Contracts for Uraniam Enrichment	
Services (Report)	097
The Reactor Inspection Program of the Atomic Energy Commission (Report)	601
Report to the President by the Nuclear Regulatory Corgnantin	310
The Safeguards and Security of the En- ergy Research and Development Ad-	
ministration's Rosky Plats Platonson FeeRty <i>(Report)</i>	060
Selected Aspects of Nuclear Power- plant Reflecting and Economics (Re- cont)	050
Shorteomings in the Systems Used to Control and Protest Highly Denger- cus Nuclear Material (Report)	063
Stemmary of Absormal Occurrences Reported to the Nutlear Regulatory	
Commission Survey of Federal Programs and Poli-	316
Survey of Federal Programs and Poli- eica for Disposing of Obsolete and Unused Naclear Facilities (Resort)	057

U.S. Financial Assas lopment of Foreig Persona (Research U.S. International N

Buths Are Des

Nuclear Energy Indu

Nuclear Engineering Canademocon for the Ugoad Metal B

IOC /Report Evaluation of the fact Test Fechty Proge

ferrer of Nuclear I and Datasail of H Waste (Speech)

Issues Related to the dray Fael Scrinets. processing Plant at York (Report)

Neclear Experts U.S. Nielcer Non-Pr (Report)

Noticer Feelilities Considerations for the Liquid Metal F

tor (Report) Forey Bruesch a Manuscritton's C for Mare Forches Fortimenth, OH (ERDA Report of R

Contraction, sea Platerzam Processi Introveness Needs

for the Prosection of Material (Report) Information Outpoor Noclear Regulatory

Issues of Nuclear F and Dupmas of Ha Wante Geerch!

Issues Related to the C eless Feel Services. ing Plant of West h

(Tenners) Report on the Sugar struction Projects E

1000

the Lagood Meral I the Lights ~

ANN 115 Nuclear Non-D (Report) U.S. Dramon Pares

n Expensive Light dray Test Facility fance is the Deve-	059	Ropers Batteled "Safety and Tran- sportation Safeguards at Rocky Flats Nuclear Weapoon Place" (Report)
n Nuclear Esergy Jacker Safeguerds	239	Nuclear Fuels Allocation of Universe Errichment Ser- vorts to Foel Foreign and Domotio
Being Effectively infed Digen) (Re-	243	Nucleir Reactors (Report) Nucleir Reactors (Report) Comments on Selected Aspects of the Advancements in Second I for Gov-
roes and Supply	248 432	erwinent Assosiance to Private Uranium Eerichment Groups (Report)
rtry Commensaikung 'ts: Beneder Reac-		Considerations for Commercializing the Logical Metal Past Brootler Reso- tor (Report)
	066	Energy Efficiency of Nuclear and Car- ventional Farls Used to Produce Electronity (Report)
Commercularia		Energy information Reported to Con- gress at Required by Public Law 93- 319
us of the Fast Flux am (Report)	065 065	Legild Metal Fast Broader Reactar Pael-Cladding Information Conter (LMFBR)
ford Reprocessing igh Level Nuclear Closens of the Na-	068	Proposed Revincess to the Ceberla and Contrasts for Unseam Enrichmena Services (Report)
Incorporated, Re- West Valley, New	670	Nuclear Fusion Controlled Passon Atomic Data Con-
affernen Policy	248	Efforts to Develop Two Nuclear Con- cepts The: Coold Gready Improve The Country's Poture Energy Strea- tion (Report)
Constantializing ast Breader Reac-	044	Nucleor Materials Criscelity Data Conter
nd Development Certifiquery Plas	066	Past Plax Test Facility Program (Stoff ataly) Improvements Needed in the Program
we Cepelity at leport micw of Design,	652	for the Protectuse of Special Nuclear Material (Report)
f Plancing of ng Pocifices d in the Program	299	lasses of Nation Pael Reprocessing and Disposel of High Level Nuclear Wate Speech
f Special Nuclear g Astronants of the Commitment (Re-	034	Issues Related to the Closing of the Na- clear Fael Services, Inc., Reprocess- ing Plant at West Velley, New York (Tenneary)
atl Reprocessing	158	Nuclear Material Management Plan Protecting Special Nuclear Material In
losing of the Na- line., Reprocess-	068	Trutoft: Improvements Made and Ex- isting Problems (Report) Role of the International Adams: En-
ulley, New York	671	ergy Agency in Safeguarding Nuclear Material (Export) Role of the International Atomic En-
isperiesung Sig-	300	ergy Agency in Subiguarding Nuclear Material (Textimony) The Subiguards and Security of the En-
anal Asorda En- granding Nuclear		orgy Research and Development Ad-

allour Variances Role of the Internetic erey Agency in Sales Material (Report) 240 Role of the International Atomic En-

242

657

- ergy Agency in Safegranding Nucleur Moterial (Transport) Sarvey of Federal Programs and Pol-
- outer of Peters Programs and Pas-outer for Disposing of Obsolete and Unused Nuclear Facilities (Asport)

An Unclassified Digest of a Classified

Comments on Selected Aspeots of the Administration's Proposal for Gov- environt Association to Private Uravitati Enrichment Georgis (Report)
Considerations for Connectriplicing the Logical Metal Fast Broader Reso- tor (Report)
Energy Efficiency of Nuclear and Cor- ventional Parts Used to Produce Electronity (Report)
Energy information Reported to Con- gress as Required by Public Law 93- 319
Legaid Metal Fest Broeder Reactor Feel-Cladding Information Conter (LMFBR)
Proposed Revences to the Cehoria and Contrasts for Unseam Enrichment

067

146

035

263

450

097

444

048

....

m

068

621

426

446

240

20

	to Develop Two	
cepts	That Could Gr	wergen] vites

Critenity Data Center
Past Plaz Test Facility Program (Stoff andy)
Interovenanta Neoded in the Program for the Protection of Special Nuclear Material (Report)
lasses of Neclear Pael Reprocessing and Disposel of High Level Nuclear Watte Speeck)
issues Related to the Closing of the Ng-
clear Fast Services, Inc., Reprocess- ing Plant at West Velloy, New York (Tenneas)
Nuclear Material Management Flan
Protecting Special Nuclear Material In Transft: Improvements Made and Ex- inting Problems (Report)
Role of the International Atomsc En- tray Agency in Safaguarding Nuclear Material (Beport)
Role of the International Asamic En- orgy Agency in Sufigurating Nuclear Material (Textimony)
The Sufeguards and Security of the En- ergy Research and Development Ad- minimumion's Rocky Flats Photoelum Pacifity (Report)
Short2omings in the Systems Used to Control and Protect Highly Danger- can Nuclear Material (Report)
Survey of Poderal Programs and Poli- cies for Disposing of Obsolete and Unsand Nuclear Paulities (Report)

and Development Ad- Rocky Flats Photosium		The Safe eray R
rt)	060	ministry
the Systems Used to		Pacific
rotect Highly Danger- datectal (Report)	062	Secontry close P
ral Programs and Foli- taing of Obsolete and ar Paulities (Report)	667	Selected plant 3 port)

Nucleor Medicine Proposed Distribution of Special No- elent Materials	303
Nuclear Nonproliferation U.S. Nuclear Non-Proliferation Policy (Report)	248
Notiser Powerplants Beliefonte Nuoleer Plant (Stoff andy) A Computer Code for Conceptual Cost	054
Estimates of Steam Electric Power Plants (Concept)	431
Considerations for Commercializing the Liquid Metal Fast Breeder Reac- tor (Report)	055
Cost and Schedule Entimates for the Nation's First Lequid Motal Fast Breeder Reactor Domenstration Pow- orplant (Report)	647
Entrgy Information Reported to Con- gress as Required by Public Law 92- 319	283
Bottgy Research and Development Administration's Contingency Plan for More Branchment Capacity at Portymouth, OH (Report)	052
Environmental Information Analysis Canter (EIAC)	448
Evaluation of the Publication and Da- tribution of "Shedding Light on Faces about Nuclear Energy" (Report)	064
Liquid Motal Fast Breader Reactor Program-Post, Present, and Peture (Textorony)	045
The Liqued Metal Fast Brooder Rescort Promises and Uncertaininies (Staff study)	047
Nuclear Regulatory Commission's Pro- gram for Evaluating Environmental Imparts of Construction and Opera- tion of Nuclear Powerplans (Report) Dyrenting Coas and Environmental Radistion Monitoring as the Ship-	051
pingport Atomic Power Station (Re- port) Problem Areas which Could Affect the	042
Development Schedulo for the Clinch River Breeder Resoter (Staff analy)	040
Reatter Information File	427
Reducing Nuclear Powerplant Lead- times: Many Obstacles Remain (Ac- pert)	067
Report by the U.S. Energy Research and Development Administration: Status of Construction Projects and	
Other Data Report on Activity and Program Indea of the Energy Research and Develop- ment Administration: Status of Con-	313
struction Projects and other Data The Safeguards and Security of the En- ergy Research and Development Ad-	312
ministration's Rocky Flats Platenium Pacifity (Report) Security Systems at Commercial Nu-	060

- owerplants (Report) 627 Aspects of Nuclear Power-
- eliability and Economics (Re-..... 050

Sequepub Nuclear Pinnt (Staff study) Shotteenings in the Systemi Used to Control and Protect Highly Danger- oan Nuclear Material (Report)	°на 062
Neclaor Proliferation Assumers of United States and Inter- national Controls over the Peaceful Uses of Nuclear Energy (Report) Role of the Interconnectal Atomic Ta-	247
orgy Agency in Safegraeding Nuclear Material (Pertmony)	242
Nuclear Receives Allocation of Unacium Barlichment Ser- vices to Fuel Parcian and Domestic Nuclear Reactors (Report) On the U.S. Breeder Reactor Develop-	238
mont Program Be Accelerated by Us- ing Foreign Technology? (Report) Comments on Energy Research and Davelopment Administration?	245
Proposed Arrangement for the Clinch River Beoder Reactor Demanstra- tion Plant Propot (Report) Considerations for Commercializing the Liquid Metal Fatt Brooder Reas-	044
the Liquid Motal Fast Brooder Reac- tor (Report) Cost and Schedule Resemptors for the Nation's First Liquid Motal Past Breeder Reactor Decognational Pow-	666
erplant (Report) The Energy Research and Dovolog- most Administration's Proposed Contract with Ensant Measurement	047
Corporation, Commenwealth Edings, and the Tennetisee Valley Authority (Agent)	055
Evaluation of the Statum of the Past Flux Test Pacifity Program (Report) Fast Flux Test Pacifity Program (Staff	065
study) Further Comments on Atomic Energy Commission's Proposed Arrange- ment for the Liquid Metal Fast Brooder Resetto Demonstration Pro-	041
jeet (Report) International Cooperation in Energy Research and Development (Ter-	053
ntwory) The Liquid Motal Fast Breader Rosstor Program-Past, Prones, and Future	245
(Report) Liquis Motal Fast Breeder Reactor Program-Past, Prestni, and Future	04S
(Zentracy) The Laped Motel Fast Brooder Reactors Promises and Uncertainlifes (Staff	045
ma(t) Operating Cost and Environmental Radiation Meetioning at the Ship- physport Atomic Power Station (Re-	649
port Poor Management of a Nuclear Light Water Resource Safety Project (Report)	942 943
Problem Areas which Could Affect the Development Schedule for the Cliach River Bracker Resolut (Staff mult)	040
Proposed Agroements for Cooperation with Other Nations on Atomic En- etgy Proposed Changes to the Atomic En-	204
ergy Commission's Arrangement for Energy Digest SEPTEMBER 1977	

Breader Reactor Demonstration Pro-	
ject (Raport)	002
The Proposed Contract for the Check River Scoular Research Propert (Ter-	
Tablesi	955
Reason information File	407
The Reactor Inspector Program of the	
Alanac Energy Commission (Report)	631
The Safeguards and Security of the En-	
ergy Research and Development Ad- mentration's Rocky Flats Flatenium	
Pacity (Report)	060
Security Systems at Commonical No-	
clear Powerplants (Report)	639
This Country's Most Exponsive Light	
Water Reactor Safety Test Facility (Report)	652
exapero	657
aclear Reactor Safety Divelopment of Interagency Relation-	
ships in the Regulation of Nuclear	
Materiels and Facilities (Report)	055
Problem Artes which Could Affect the	
Development Schudule for the Clinch	
Rover Breeder Resetter (Steff study)	040
Sequeyah Nuclear Plant (Sing) study!	043
An Unclassified Digest of a Cleasified Report Eastied "Sofety and Tran-	
sportation Safeguards at Socky Flats	
Nuclear Wespons Plant" (Report)	
	667
weeks weipers hats (Algori)	602
	60
eclaser Research Efforts to Develop Two Nuclear Con-	60
edaer Research Efforts to Develop Two Nuclear Con- cepts That Could Greatly Improve	60
eclaor Ressorch Efforts to Develop Two Nuclear Con- cepts That Could Greatly Improve This Country's Futers Energy Stua-	
eclaor Ressorch Efforts to Develop Two Nuclear Con- cepts That Could Greatly Improvo This Country Future Energy Situa- tice (Report)	60
edisor Ressorch Efforts to Develop Two Nuclear Con- cepts That Could Granly Improve This Country's Potent Energy Sha- tion (Report Information-Gethering Activities of the Nuclear Regularizy Commission (Re- Nuclear Regularizy Commission (Re-	
edisor Research Elfors to Develop Two Nuclear Con- cepts That Could Greatly Improvo This Caustry's Fotors Energy Situa- tics (Roper) Information-Gethering Activities of the	
edisor Ressorch Efforts to Develop Two Nuclear Con- cepts That Could Granly Improve This Country's Potent Energy Sha- tion (Report Information-Gethering Activities of the Nuclear Regularizy Commission (Re- Nuclear Regularizy Commission (Re-	645
acher Research Efforts in Develop Two Nuclear Cor- orps: That Could Grandy Improve This Ossiphy Houre Energy State Use Mount? Information-Genheding Activities of the Nuclear Regulatory Commission (Re- per) School Sologuards	645
scher Rasserth Efforts in Davidge Twis Nuclear Con- cepts That Could Grandy Improvi This County's Future Energy Situ- tion (Rayor) Information-Gethoring Activitism of the Nuclear Regulatory Commission (Re- port) efforts Schegureds Antonamout of Uncold States and Inter-	645
schere Research Rifers in Develop Two Nuclear Con- cepts That: Costal Grashy Improvi This Costary's Future Energy Sta- tion Report Information-Gethoding Activitiss of the Nuclear Reputery Costinuion Re- port Schere Scheguerch Anonannal of Unced States and Inter- standiel Castrole over the Postofia	645 188
scher Banarch Effors in Dovidy Two Nuclear Con- teres That Could Grady Ingrow This Causity's Here Energy Shau- tion Report Information Genetrica Astribution of the Nuclear Regularary Commission (Re- port) Celes Talegooch Antonnand of Uniced States and Inter- nisticant Coartisle over the Teoroft) Use of Nuclear Energy (Report)	043 138 247
clier Resarch Effors to Dordep Two Nuclear Con- ores Tats: Cold Consky Ingrow This Casnity: Foren Barry Shau- tion Regards Motion Registratory Commission Re- ards Antoniana (Ulucia States and Inter- stement College of the State of Inter- Statement College of the Statement College of the Inter Statement Colleg	645 188
scher Banarch Effors in Dovidy Two Nuclear Con- teres That Could Grady Ingrow This Causity's Faters Energy Shau- tion Report Information Gendering Architica of the Nuclear Regularary Commission (Re- port) Celes Talegooch Antonnand of Uniced States and Inter- nisticant Coartisle over the Teocoft) Use of Nuclear Energy (Report)	043 138 247
chier Resarch Effors in Derdig, Twe Naciesr Con- Chier Construction of the Constru- tion (Report) Monettion Contenting Articlica of the Network Construction (Re- work) Celer Scheuesch Alsonammed (Flored Salars and Ister- Alsonammed (Flored Salars and Ister- Alsonammed (Flored Salars and Ister- Alsonammed (Flored Salars and Ister- Alsonammed (Flored Salars and Ister- Resarching (Salars and Ister) Resarching (Salars an	043 138 247
cher Basach Rifters in Derden Two Naciers Con- oren Tat: Could Guady Ingreyn the Graph Telen Energy Shar- tic Graph Telen Energy Shar- Internation-Gerburgs Artiklika of the Notest Energy Countinuing Re- prof elser Sologowed Loss of Nather Energy (Shord) Des of Nather Energy (Shord) Beldiata Noder Fast (Shift and) Devicement of Internative Sologian Shift Andrew Sologian Sologian Shift Andrew Sologian Sologian Shift Andrew Sologian Sologian Shift Andrew Sologian	043 138 247 654
etter Easerch Effers a Derley Tve Nuclear Con- ump Tat Code Grandy Jergro- tion (Bayer) tion (Bayer) Microsoft (Strate Microsoft) Microsoft (Strates Microsoft) Microsoft (Strates) etter Seleptors Commission (Bayer) etter Seleptors Commission (Bayer) etter Seleptors (Strates) etter Seleptors (Strates) ette	043 138 247 254 055
nder Easerch Effen a Derde yn a Nader Co- the State o State Co- the Castry Printe Enry State ian Royd Diometric Gelening Activita a' da Diometric Gelening Activita and Company Committee Be- per des States and Activity Ac	043 138 247 654
nder Essend Thins & Decky To Aufor Caro the Caroly House Berg Sau Un Regel Un Regel Data Sauto Sa	043 138 247 254 055
nder Resende Anders The Could Grady Ingress Inderson Park Strategie State State State State Strategies State	043 138 247 254 055
nder Exacted Thins a Dickey II ourge and the casety A level for gravity the Casety A level for through the the Casety A level for through the the Casety A level for through the Dicket Englishtery Casthilise of the part Anneared C Charls States and Inter- ted Charls States and Inter- Inter- States and Inter- States and Inter- Inter- States and Inter- States and Inter- States and Inter-	043 138 247 254 055
ndrer Exacuto Thora the Court for No. No. Court the Court for North Terry Show the Court for North Streng Show The North Court for North Streng Show North Terry Show Court for North North Terry Show Court for North North Terry Show Court for North North Strengt Show Court for North Strengt Show North Strengt Strengt Show Court for North Strengt Show North Strengt Strengt Show Court Show Show Show Show Show Show Show Show	643 188 247 655 642
nder Resende Amerika i Ver Nicker Com- Terrer The Could Grady's Ingree Statistical Could Grady Ingree Statistical Could Grady Ingree Mitter Statistical Councils of A Mitter Statistical Councils of A Mitter Statistical Councils of A Mitter Statistical Council Council Council De A Note Brady Council Council Council De Andream Council Council Council Council Council De Andream Council Council Council Council De Andream Council Council Council Council Council De Andream Council Council Council Council Council Council De Andream Council Counc	048 188 247 055 049
ndrer Exacuto Thora the Court for No. No. Court the Court for North Terry Show the Court for North Terry Show The North Terry Show Terry Show North Terry Show Terry Show North Terry Show Terry Show Court Show Terry Show Court Show Terry Show Terry Show Terry Show Ter	643 188 247 655 642

N

N

Ne

Chevente Ont the Liquid Maral Dur

The Reactor Inspection Program of the Atomic Energy Commission (Report)

Role of the International Atomic Energy Agency in Sufegueding Nuclear Material (Report) (23)

240

10

660

Role of the International Atomic Encity Aponty in Subgranding Nuclear Material (Technany)

The Solgands and Security of the Eoergy Research and Development Adminimusion's Rocky Plata Platonium Facility (Report)

Occupational Haolth and Safety

Security Systems at Commercial Nu- class Powerplants (Report)	(09
Shortcomings in the Systems Used to Control and Protost Highly Danger-	
ces Nuclear Material (Report)	063
Survey of Federal Programs and Poli- ons for Disposing of Obsolete and Unwood Nuclear Pacifices (Report)	057
This Country's Most Expensive Light Water Rescor Solety Test Facility	
(Report) US International Nuclear Safeguanes	059
Rights Are They Being Effectively Excrement? (Unclassified Digest) (Re- pert)	243
1	
Nuclear Security	
Assessment of United States and Inter- national Controls over the Pescelul Uses of Nuclear Entrgy (Report)	247
Improvements Needed in the Program	
Material (Report) Report to the President by the Nuclear	034
Regulatory Commission Role of the international Atomo En-	318
argy Agency in Sologuerding Nuclear Material (Testimony)	242
Nuclear Security Measures	
Issues of Nuclear Fuel Reprocessing and Dispessi of High Level Nuclear Waste (Speech)	064
As Undersified Digest of a Classified	
Report Entitled "Sefety and Teas- sportation Safeguneth at Rocky Flats Nuclear Weapors Plant" (Report)	067
U.S. Nuclear Nos-Prehforation Policy (Report)	245
Notion Testing Newdo Applied Ecology Information	
Conter	452
Nucleor Weapons Assessment of United States and Inter-	
retional Controls over the Proceful	
Uses of Nuclean Energy (Report) Report on the Status of Major Cor-	247
struction Projects Experiencing Sig-	
nificent Veriances An Untisseified Depets of a Classified	300
Report Feptied "Sefery and Treet-	
portation Safeguards at Rocky Flats Nuclear Wespons Flats" (Report)	047
U.S. Nuclear Non-Proliferation Policy (Repect)	248
Teribert's	248
Naciear Weapons Export Palicy	
U.S. Nuclear Non-Proliferation Policy (Report)	248
Occupational Health and Safety ERDA Report of Review of Design,	

ERDA Report of Review of Design,	
Construction, and Planning of	
Platoning Processing Pacilities	299
Information Center for Energy Sulety	
0(35)	453

Office Buildings Comparison of Energy Use in Free Padecal Office Baldangs (Report) Office of Pipeline Sefety Annual Report of the Secretary of Transtenation on the Administration of the Natural Gas Presing Safety Act of 1958 Offshere Drilling Occorrunces of the Interior Study of Shralo Od and Oas Well Completions and Lesses-OAO Observations (Receil Follows on Cross Matters Corcersing the Intregues and Regulators of Outer Concernal Shalf Od Ottrations (Report) 504 The Goolegical Servey's Insdequate Acton on Personnalatory Concentry Importion and Regulation of Over Cremercui Shelf Od Comtrent (Reneed) Intercool Polyces and Procedures for the Exploration and Deschargers of Over CorangetalShell Ravauxer(Textmon) 293 Increased Inspection and Regulation Cred Rodney the Possibility of Olsoils on the Opter Centrectal Shelf (Rescrit) Outer Contracetal Shell Sale #35 Problems Science and Exclusion Land to Lease (Report) 21 Problems in Identifiant, Developing, and Using Geothermal Resources (Report) Rational Exploration and Development of Outer Connernal Shelf Resources 220 (Texesory) Ohle The Economic and Equiponitional Inpast of Natural Gas Centritments during the Winter of 1975-76 (Asport) The Economic and Econometral Innact of Nazatal Gas Consulments Dancie the Winter of 1975-76 (Ter-Foderal and State Solar Beergy Fesearch, Development, and Demossumoo Activities (Report) 200 01 FEA Oil Irroari System 254 Federal Energy Adversionation Annual Report to the Pressdent and Congress. 220 Intervel Poisses and Procedures for the Bulenation and Drucksmeet of Outer Concess (Shell Revenue) Transmit 236 Major Fuel Barning Installations (MFBI) 154 Monthly Energy Review 281 Monthly Petroleurs Statistics Report 265 Propuse/Betare Allocation System 347 Oil Sellis

Oil Exploration

Outer Continental Shelf Oil and Gas

,	Development: Improvements Needed in Determining Where to Lease and at What Dollar Value (Report)	211
,	Oli Fields Survey of Publicators on Explanation, Development and Delivery of Alas- kan Gil Market. (Report)	18
	Oli Prices The Effects of Oil Price Increases on Small Business Contracts (Report)	12
	Oll Producing Countries A Sommary of Europeas Views on De- pendency of the Free Warld on Mid- die East Oli (Report)	23-
	Oil Production International Oil Supply Model	38
	Oli Reserves Information on Contaen Oal and Oas In- dustry Orazzigha Responsibilities (Re- port)	105
,	Oil Shole Bentenite Title Clearonce System Land Base System Gil Shale/Bentonite Title Cleanance	332 330
	Oli Shole Reserves Copublity of the Naval Petroleum and Oli Shale Reserves to Meet Emo- gency Oli Needs (Textmoorg)	07:
	Oil Sholes Agreement between the Secretary of the intention and Officalis of the State of Uils Perturning on Oil State Lenses (Liner) All Parchases and Condemnation Pro- ceedings, Regarding the Navol (Pe-	205
	Abtractive Focks for Avlation (H.R. 12112) (Taurmony)	255
	Aenual Report to Congress on Naval Patroleum and Oil Shale Reserves	265
	Capability of the Naval Petroleum and Oil Shale Reserves to Meet Emer- gency Oil Needs (Report)	075
	Comments on the Administration's Proposed Synchroise Paths Commer- cialization Program (Report) Possil Energy Program Report Lond Base System	140 311 335
	Management of and Plans for the Naval Petroleum Reserves (Report)	222
	Oil Shale/Benneraro Tide Clearance	320
	Protection of Cil Reserves Quercely Report of Production from the Navel Potroleum and Cil Shale Reserves	261 255

Pollowup on Cortsin Matters Concorning the Inspection and Regulation of Octor Continuousli Shell Oil Operations (Report)

Improved Inspection and Regulation Could Reduce the Possibility of Ol- spills on the Outer Continental Shelf	
(Report) National Geean Palicy Study (Tes- strong)	100 212
Recovery of Expenses from Cleanup and Investigation of Oil Spills (Letter)	
Spill Provention Control and Counter- measure System (SPCCS)	107
Technical Assistance Data System (TADS)	342
Trans-Alaska Osl PepelineProgress of Construction through Nevember 1975 (Report)	084
Oil Storage Spil Prevention Control and Counter- measure System (SPCCS)	342
Olt Well Drilling Dnilleg Equipment Production Sur- vty Outer Configural Shell Sale #35	359
Problems Selecting and Evaluating Land to Lease (Report) Products of and Fature Plana for Ex-	231
piceaton of National Patroleum Re- serve in Alaska Rational Exploration and Development	271
of Gater Commental Shelf Resources (Teamony)	230
Onthore Leases Controvitors Division Task Force Ro- port on the Osthora Losse Manage- reent Pagram Study for the U.S. Geological Survey Ossitere Losse Management Program Study for the U.S. Geological Survey	247 250
Onshore Natural Gas Review of Royalty Accessing System for Oashcon Gil and Gas Leases	253
Onshore Petroleum Review of Royalty Accounting System for Onshore Oil and Gas Lesses	250
Operating Costs The Economic and Enveronmental In- pact of Natural Gas Curtaitments During the Winter of 1975-76 (Ta- anany)	063
Information on the Proposed Alaska Oil Pipeline (Report)	074
Organization for Economic Conparation and Development OBCD Energy Domand Model	345
Outer Continental Shelf Accelerated Outer Continental Shelf	
Development (Tenimony) Accelerated Outer Continental Shelf	216
Development (Textingent)	219

Alternative Entryy Proposals (Tes-	165
Department of the Interior Study of Shut-in Oil and Gas Well Comple- tions and Leason-GAO Observations	
(Report) Development of the Outer Continental	224
Shelf Found Feel Resources (Ter-	215
Followup on Cettan Matters Concen- ing the insponson and Regulation of Outer Continential Sholf Oil Opera- tices (Report)	208
The Geological Survey's Inselectate Action on Recommendations Con- orming Inspection and Regulation of Outer Commental Shelf Oil Opera- tions (Report)	222
Improved Inspection and Regulation Could Roduce the Possibility of Oil- spike on the Outer Commontal Shelf (Report)	190
Issues in Lessing the Atlentic Outer Continental Shelf (Taxtoroug)	213
National Ocean Policy Study (Tes- month)	212
Oil and Ges Lessing on Federal Lands (Report)	210
Outer Continental Shalf Oil and Gas Development, Improvements Needed in Determining Where to Lease and as	
What Dollar Value (Report) Outer Continental Shell Post-Sale Sys-	218
tem Outer Commental Shelf Sale #35:	301
Problems Selecting and Evaluating Land to Leuse (Repert) Outlock for Federal Goals to Acceler-	231
un Lanua of Out and Gas Resources on the Outer Continental Shell (Re- port)	214
Rational Exploration and Development of Octor Continental Shelf Responses	
(Tennony) Recovery of Expenses from Cleanup	220
and investigation of Oil Spalls (Lener) Refunds on Outer Castingonial Shelf	107
Lesses Reports of the Review Committee on Safety of Outer Continental Stuff Pe-	260
troleers Operations to the Unsed States Geological Survey	251
Reports of the Work Group on OCS Safety and Pollation Control	252
Ovarchorges Gelf Oll Corporation's "Double Dip- plag" on Crude Oil Product Costs (Report)	126
Mazagoment Ingrovements Needed In the Poteral Power Commission's Processing of Electric-Rate-Increase Cases (Report)	153
Pomphiats Evaluation of the Publication and Dis- mbrana of "Shedding Light on Pacts shout Nuclear Energy" (Report)	064
Porticles Controlled Fasion Atomic Data Ces- ter	***

national Controls over the Pesothi Uses of Nuclear Energy (Report) Proposed Distribution of Special Nu-	247
rioposed Distribusion of Special Nu- clear Materials	203
Pannayivenia The Economic and Economicatel Im- pact of Natural Gas Curtalitional de- ing the Witter of 1975-76 (Repert)	082
Parformance Bands Administration of Regulations for Str- face Exploration, Musing, and Recla- mation of Public and Indian Coal Lands (Report)	093
Portoanal The Eargy Research and Develop- ment Administration's Proposed Contract with Project Management Corporation, Commonwealth Belico, and the Trenessoe Valley Ascherity (Anjort)	655
Personnel Management Pedenal Energy Administration Pesson- nel Tarrover Rates (Report) Information on Sciented Aspects of the	181
Power Operations of Tennesson Val- icy Authority (Report) The Processed Contrast for the Clinch	157
River Reseder Reaster Project (Te- away) Staffing of Poderal Energy Administra-	056
tion's Office of Communications and Public Affans (Report)	164
Patroleum Accelerated Outer Continental Shelf	
Orectopment (Testesory) Accelerated Otter Costinental Shelf	216
Development (Testinory) Alleged Waste of Money in Prizzing Costs on Gas Ramming Coupons	279
(Letter) Alternative Energy Proposals Deve- loped by the Central Accounting Of- fice In Response to Congrussical Inspirites Proposals and Supporting	110
Analyses (Testinon) Capibility of the Naval Petroleum and OI Shile Reserves to Most Ener-	145
genzy Oil Nends (Report) Compressiony Royalty Agreements	672 372
Crade Oil and Natural Gas Production Model	290
Crocle Oli Bay/Sell Program	350
Crade Oil Entitlements (Equaliza- tion) Crade Oil Proting Model (DCROP8)	352
Department of the Interior Study of	397
Shut-In Oil and Oas Well Comple- tions and LeanesGAD Observations	
(Report) Demestic Energy Resource and Re-	224
sorre Estimator-User, Limitatices, and Needed Data (Report)	255

Pencaful Uses of Nuclear Energy

Petroleum

Oast Feel Program (Report)	001
Employee Disclosures under the En- ergy Policy and Conservation Act	245
Energy Resource Data Systems	328
Energy, the Economy and the Budget (Speech)	149
FEA Crude/Transportation Model	359
Federal Efforts to Conserve Puel in the Movement of Men and Materials (Re- port)	004
Federal Energy Administration Annual Report to the President and Con- seess	200
Federal Energy Administration Efform to Audit Fael Oil Supplies of Major Unity Companies (Project Utility)	200
The Federal Energy Administration's	126
Compliance and Endorcement Activi- tics (Tealmony)	119
The Pederal Energy Administration's Compliance and Enforcement Pec- cosits (Teulocop)	125
The Federal Energy Administration's Progress in Redirecting Its Compli- unce and Enforcement Program (Re-	
post/ Protectal Disclosures by Employees	120
Performing Functions under Energy Policy and Conservation Act	287
Followup on Certain Matters Concern- ing the Inspectice and Regulation of Outer Commental Shelf Oil Opera-	
tions (Report)	208
Fondi Energy Program Report Funds Credited to the Accessed of the Vergin Islands for Refunds from Im-	311
part Literate Fees (Report) The Geological Survey's Inadequate Action on Recommendations Con-	124
eersing Inspection and Regulation of Outer Continental Shelf Oli Opera- nons (Report)	222
Gulf Oil Corporation's "Deable Dip- ping" on Crude Oil Product Costs	
(Report) Importance of Passancial Data in Evo- inating Fodera) Energy Programs	138
Genecht	144
Improved Importion and Regulation Could Roduce the Possibility of Oli- spills on the Outer Continental Shelf	
(Report) Improvements Needed in the Federal Enhanced Oil and Gas Recovery Re-	100
starch, Development, and Demon- stration Program (Report)	155
Indian Natural Resources-Fart II: Cost, Oil, and Gas-Better Manage- mont Can Improve Development and Increase Introne and Employment	
Increase Income and Employment (Report) Information on Certain Oil and Gas In-	225
daatry Oversight Responsibilities (Re- port)	105
Information on the Proposed Alaska OI Pipeline (Scort)	074
International Oil Supply Model	388
Issuer Needing Attention in Develop- ing the Strategic Petroleum Reserve	
(Report) Issues Related to Foreign Sources of Oil	090
for the United States (Report) Management of and Plans for the Navol	235
Printerin Reserver (Report)	227

Patroleum

Monthly Energy Review Monthly Percelear Statistics Report
The Navy's Practice of Discharging Fuel at Sea (Report)
Oil and Gas Supply Model Outer Conseenal Shell Oil and Gas Gervalopment Improvements Needed in Octorenemy Where to Lease and at What Octar Value (Report) Petrologum Market Shares
Problems in the Federal Energy Ad- mentitration's Complement and En- forcement Effort (Report)
Problems on the Frederal Energy Office's Implementation of Emergency Pe- trolourn Allcoaucos Programs at Re- paral and State Levels (Report) Problems of Independent Refiners and
Gasobae Resulters (Report) Procedures for Evaluating Reasonable- ness of Petroleum Pipeline Rates
Need Improving (Report) Procurement of Foreign and Domessic Petroleuse by Oepartment of Defense (Report)
Quarterly Report of Production from the Naval Potroleum and Oil Shale Reserves
Reflorry Cost Passtrough Reports of the Review Committee on Salery of Over Contenent ISolf Pe- relevan Operations to the United Stores Getergiant Survey Reports of the West Group on OCS
Safety and Pollistion Control
Review of Compliance Concerning the Mandatory Petroleurs Allocation Program and the Regulation of Pe- troleurs Pricing (Report)
Statistical Oats on Petroleum and Pe- troleum Products (Report)
A Summary of European Views on De- positiency of the Pres World on Mid- die East Oil (Report)
Teensfer Precing System Violation of Celling Proces in a Defense Paul Septyl Center Sale (Report) Which Alternative for Ecorgy Policy? (Speech)
Petroleum: Allocation Program Problems in the Potenti Reargy Office's Implementation of Energy Po- troleum Allocation Programs at Re- restance Allocation Programs at Review of Completion Conference of Network of Completion Conference Network of Completion Conference Network of Completion Conference Network of Completion Conference Network on the Registric of Pr- teoleum Process (Report)
Patroleum Conserveilen The Department of Dafaset's Conser- vetion of Petrolaues (Ropert) Inspreventum Needed In Controls and Assentifie for Canard Vahiele Po- troleum (Ropert) Poetstill for Using Elevrice Vehicles on Pedera Massiloifons (Ropert)

281	Patroleum Demend Short Term Petroleum Demand Fore-	
285	eniting Model	363
020		
378	Petrolezus Distribution Size Destribution Madel	36-
218	Patrelova: Engineering	
	Annual Report to Congress on Naval Petroleum and Oil Shale Reserves	285
118		
106	Petroleum Exploration Esploration of National Petroleum Re- serve in Alasta	270
	Progress of and Pattere Plans for Ex-	
121	plannion of Nazional Petroleum Re- serve in Alaska	271
094	Petrolaum Imports FEA Cil Impori System	354
091	Mandatory Oil Imports Project (MOIP)	353
	Trends in Relincry Capacity and Utili- zation of Petroleum Refinence in the	
258	United States and Foreign Reflerry	
346	Exposting Centers	350
251	Petroloum Industry Federal Energy Administration's Ef-	
352	Federal Energy Administration's Ef- forts to Audit Domestic Crude Oil Producers (Report)	123
	Improved Policies and Procedures for the Exploration and Development of Outer Continental Shelf Resources (Terminan)	232
202	Review of Voluntary Agreement and	
079	Plan of Action To Implement the In- ternational Energy Program Survey of Publications on Exploration,	276
	Development and Delivery of Alas-	
234 251	kan Oll Market (Report)	199
301		
128	Petroloum Looses	
168	Department of the Interior Study of Shou-In Oil and Gas Well Comple- time and Leaves-GAO Observations (Report)	224
	Development of the Outer Continental Shell Fossil Fuel Reservees (Ter- almony)	215
108	Issues in Leasung the Atlantic Outer Continential Shelf (Tartimory)	213
	National Ocean Policy Study (Ter-	213
102	OB and Gas Leasing on Federal Lands (Report)	210
	Outlook for Federal Goals to Acceler- site Lessing of Oil and Oas Resources on the Outer Continental Shelf (Re-	
012	pert)	214
	- · · ·	
015	Petroloum Monogement Improvements Needed in Controls and	

018 (Report)

022

	Petroleum Pipelinos	
5	Survey of Publications on Exploration, Development and Delivery of Ahu- kan Oli Market (Report)	189
4	Petroleum Prices The Cost of Living Council's Actions to	
	Assure That Cost Increases for Pa- trulour: Products Were Made in Ac- cordance with Petroleum Pricing	
	Regulations (Report)	106
2	Crade Oil First Parohaser	355
	Economic Implications of Current World Oil Prices (Step/ 2005) The Effects of Oil Price Increases on	237
	Small Business Contracts (Report) Exemption of a Refined Petroleum Pro-	123
2	duct from the Mandatory Petroleum Allocation and Price Regulations	291
•	Survey of Publicamens on Exploration, Gevelopment and Delivery of Alos-	
	kan Oli Markes (Report)	189
\$	Petroleum Pricing Policy Demostic Crude Oil Pricing Policy and	
5	Related Production (Report)	112
	Patroleum Production	
	The Federal Energy Administration's	
	Progress in Reducesting Its Compli- ance and Enforcement Program (Re-	
	part)	120
	Management of and Plans for the Naval Petroleum Reserves (Report)	227
	Oil and Gas Leasing on Federal Lands	
	(Report) Oil and One Reserves System	210
	Petroleum Products	
	The Administration of the Petroleust Set-Aside Program by State Energy	
	Offices (Report)	122
	Otst and Pricing System	374
	The Cost of Living Connell's Actions to Assure That Cost Increases for Pe- troleum Products Wore Made in Ac-	
	ourdance with Potroleum Pricing Regulations (Report)	105
	Energy Information Reported to Can- gress as Required by Public Law 93-	
	319 Joint PEA/BOM Petroleum Reporting	253
	System	375
	Market Shares System	370
	Oil and Gas Reserves System Review of the Operations Division of	372
	the Federal Energy Administration	
	(Report)	115
	Subpart L	369
	Petroleum Products Demond	
	Short Term Potroleum Dermad Face- oasting Model	385
	and more	-83
	Petroleum Refineries	
	Effects of a Change in Size Standed for Small Business Petroleum Refiners	

Energy Digest SEPTEMBER 1977

Pleasure Basin (CO)

Finalios Construction

1975 (Report)

Pipeline Rates Natural Gas Regulation System (Pipeline Rate)

of 1064

System Natural Gas Company Operating Infor-

Pianning Annual Report to Concerns on Naval

metico File

Pipelines Annual Report of the Seconary of Transportsteen on the Administration of

Frontes and Problems in Developing

Trans-Alaska Oil Fineline-Process of Construction through November

the National Gas Pipeline Safety Art

Correctate Estaterial and Economic In-

Greats of Rights-of-Way for Pipelines.

Inine FEA/BOM Petroleam Reporting

Natural Gas Regulation Switern (Pipe-

Natural Gas Regulation Susteen (Pro-

Netwal Gas Regulation Systems (Pipelint Certificate)

Procedures for Brainsting Reasonable-

nam of Primiram Pueline Rates Need improving (Report)

Reports of the Review Committee on

Petroleura and Gil Shale Reserves

Energy Conservation at Government Field Installations: Protons and

Opportunities to improve Planning for

Power Production at Federal Dana Could Be Increased by Modernizing Turbices and Opporators (Reset)

Progress of and Pature Plans for Exploration of National Petroleum Reserve in Alsoka

Research Information Management

Solar Energy Research and Development (Report)

Problems (Report) Forrey Policy Decsionmaking, Oran-Ization, and National Energy Goals (Report)

System (RD65)

Safety of Outer Cantinental Shelf Petroleum Operations to the United States Geologiest Survey

Natural Gas Distribution Model

formation File (RISCEID)

Gas Supely Indictors

thannah Bederal Lands

FEA Crude/Transportation Model

Nuclear and Other Experimenta

Teahrrowen for Recoverent Natural Gasurdees for Recovering Network

Joint FEA/BOM Petroleum Reporting	
System	375
Trends in Refinery Capacity and Utili-	
aution of Petroleum Refinence in the	1
United States and Pareign Refinery Esporting Centers	360
	~~~
Petroleum Reserves	
All Parchases and Condemnation Pro-	
ocedings Regarding the Naval Pe-	
troleum and Oti Shale Reserves	259
Alternative Enorgy Proposals Deve- leged by the General Accounting Cf-	
fice in Response to Congressions)	
Inquiries Propenals and Supporting Analysiss (Textmons)	166
Annual Report to Congress on Naval	100
Petrokum and Oil Shale Reserves	262
Capability of the Naval Petroleam and	
Gli Shale Resorves to Meet Emer- gency Oil Needa (Report)	072
Capability of the Naval Petroleam and	w.2
Oil Shale Reserves to Meet Emer-	
gency Oil Needs (Textinses)	073
Exploration of National Potroleum Re- serve in Alaska	270
Followup Roview of the Naval Pr-	
troloum Reserves (Report)	220
Issues Needing Attention in Develop- ing the Strategie Petroleum Reserve	
(Report)	090
Management of and Plans for the Naval	
Potroleum Reserves (Report) Ol and Ota Reserves System	227
Outer Continental Shell' Sale #35	24.8
Problems Selecting and Evaluating	
Land to Lease (Report)	231
Progress of and Future Plana for Ex- ploration of National Petroleum Re-	
serve in Alaska	271
Protection of Oil Reserves	261
Receipt and Coordination of Natural	
Oas Reserve Data (Report) Strategie Petroleum Reserve Plan	288
Strategie Petroleum Resorves Program-	149
Wide System (SPR)	363
Petroleum Resources	
Oil and Gaa Reserves System	373
Petroleum Storage	
ing the Strategic Petrology Reserve	
(Report)	090
Site Distribution Model	354
Strategio Petroleum Roserve Plan	289
Petroleum Transport Procedures for Evaluating Reasonable-	
ness of Petroleum Pipeline Rates	
Need Improving (Report)	074
Trans-Alaska Oli PipelineProgress of Construction through November	
1975 (Resort)	084

Plant Design
Sequeyah Nuclear Plant (Slaff study)
,

Energy Digest SEPTEMBER 1977

#### IIS Prosent Annatarce to the Drive-Internets of Facega Nuclear Sporgy Programs (Record) -----Plostics Statutoral Data on Pateoleum and Potroleum Products (Report) Pleours Fill Experiment Poor Management of a Nuclear Lapht Water Reactor Safety Project (Report) Plutonium Considerations for Commercializing the Larrid Metal Past Breeder Baseter (Report) Revienments) Information Analysis Center (ELAC) .... ERDA Report of Review of Design. Construction, and Planning of Platonium Procession Facilities Nevada Applied Ecology Information 452 Shortcomings in the Systems Used to Control and Protect Highly Dangerous Nuclear Material (Report) An Unclassified Digest of a Classified Report Enteled "Safety and Transportation Safeguards at Rocky Flots Naclear Wespeen Plant" (Repart) 067 Pellutonts Problems Caused by Coal Mining Near Federal Reservoor Projects (Ter-0335550 075 Resource Recovery and Scores Reduc-279 Poliution Centrel

Energy Data System (EDS)	341
Improved Inspection and Regulation Could Reduce the Possibility of Oli- spills on the Oater Coutineoial Shelf (Report)	100
Potential for Using Electric Vehicles on Federal Installators (Report)	023
Problems Caused by Coal Mining Near Federal Reserves: Projects (Report)	073
Rocyoling of Materials	200
Reports of the Review Committee on Safety of Outer Continental Shelf Pe- trobulan Operations to the United Status Coological Survey	251
Reports of the Work Group on OCS Sofety and Pollution Control	255
Solid Waste Management, Collection, Disposal, Resource Recovery, Recy- cling Program	257
Split Prevention Control and Counter- measure System (SPCCS)	345

### Pollution Control

m

Plant Financing

Plants

.....

416

277

100

400

223

413

410

116

....

094

251

028

101

200

205

271

324

Pature Structure of the Uranum En-

richment Industry (Testimont)

1	53

Sub(act	ledex.
Safotr	
	433

Information Conter for Energy Safety

leases Needing Attention in Develop-

ing the Strategic Petroleum Reserve

(ICES)

Technical Assistance Data System (TADS) Trans-Alistic Dil Pipeline-Progress of Cossingtion through November	34
1975 (Report)	08
Population Statistics Comprehensive Human Resources Data System (CHRDS) Socio-Economic Environmental Demo- graphic Information System (SEE- DMS)	35 43
Powar Equipment	
Sarvey of Federal and Electric Utility Procurements of Power Equipment (Report)	16
Power Generation Federal Hydroclostific Plants Can In- crease Power Sales (Report) Pacific Necehovat Hydro-Thermal Power Program-A Regional Ap-	20
guirements (Report)	14
Plans for Construction of a Magnetoby- drodynamics Test Pacifity in Mon- tona (Report) Revenues and Const Allocated to Power	08
Operations at Multiple-Purpose Peo- jects in the Southwestern Federal Power System (Report) Southeaspern Federal Power Program-	09
-Pinanelal Management and Program Operations (Report)	17
Power Licenses Problems in Lecensing Hydroeleculo Properts (Report)	13
Pawar Load Forecasting Bolt Electric Power System Relabil- by	49
Power Loss Status of Federal and Power Research and Development Efforts to Conserve Energy by Reducing Electric Power Transcriment Loses (Shaff mail)	05
Powarplant Construction Liquid Metal Past Reader Reactor Program-Past, Presenc, and Potare (Tationom) Nuclear Regulatory Communication's Pro-	04
gram for Evaluating Environmental Impaots of Construction and Opera- tion of Nuclear Powerplants (Report)	95
Powerplorits Beliefonie Notiesr Flant (Smill starty)	- 05
A Computer Code for Conceptual Cost Estimates of Steam Electric Power Plants (Concept)	43
Cost and Schedule Estimates for the	

Nation's First Liouid Metal Past Bitteder Reseter Demonstration Pow-ceptant (Report)

w

340	Electrical Plannial Forenating Model (BSB Model EUPINANCE)	277
084	Hydrosiscario Power Resources of the Uncod States (HPR) Labrary of Executed Electric Power	407
0.04	Contracts	334
	Operating Cost and Beveroamental Radiation Menitoring at the Shep- paggert Atomic Power Station (Re-	
355	parti Planning and Billing System	042 339
434	Planting and starting system Plant Operation and Power Schedul- ins	335
	Power Flow Program	336
	Power Production at Federal Dama Could Be Increased by Mederalizing Turbines and Generators (Report)	205
1.62	Reactor Information File	10
	Real-Time Operations, Dispatch and Spheduling (RDDS)	237
201	Reducing Nuclear Powerplant Lead- times Many Obstacles Remain (Re- pert)	059
201	Revenues and Costs Allocated to Power	
	Operations at Multiple-Parpose Pro- jepts in the Southwestern Pederal	
141	Power System (Report)	096
	Security Systems at Contracted Nu- olear Powerplants (Report)	039
186	Sherwornings in the Systems Used to	007
	Control and Protest Highly Danger- ous Nuclear Material (Report)	062
096	Status of Pending Hydroelectric Ap- plications	410
174	Summary of Abnormal Occurrences Reported to the Nuclear Regulatory Commission	316
	Supervisory Control and Data Acquin- tion System (SCADA)	338
132		
144	Powerplant Siting Environmental Information Analysis Conter (BIAC)	418
404	Powar Rassorch	
	Energy Information Reported to Con- gress as Required by Public Law 93- 319	243
015	Power Resources Accordies of Each Geothermal Dector-	
	stration Project Activities of the Goothermal Coordina-	367
	tion and Management Project	206
	Center for Bnergy Studies (CE5)	443
046	Domostic Energy Resource and Re- serve Britmeen-User, Limitations, and Needed Data (Report)	200
	Effect and Operation of Interstate Com-	~
051	pacts Relating to Natural Ona Energy Abstracts for Policy Analysis (EAPA)	297
	Baergy Resource Data Systems	328
054	Evaluation of the Status of the Past Flux. Test Pacility Program (Report)	065
431	The Federal Wied Energy Program (Re- port)	206

Improvenents Needed in the Pederal Britanced Oil and Oas Recovery Re-search, Development, and Demon-stration Program (Report)

٢.,	ing the Straigue Pointleam Reserve	090
	(Report)	090
6	Management and Funding Apports of Three Nonivorlear Energy Research,	
	Development, and Demorstration	
	Subprograms (Report)	203
2	Mietzg and Minerals Policy	267
	Meeting Research	123
	Monthly Petroleace Statistics Report	285
5	National Energy Policy An Agenda for	
	Analysis (Report)	191
	National Program for Solar Hosong and Coaling	338
,	RECON (REmote CONsole)	440
;	Resitw of FPC and FEA Actures in As-	
	sessing the Impact of Natural Gas	
,	Contailments during the Winter of	
	1976-77 (Lener)	089
	Solar Energy Update	437
9	Submission of U.S.S.R. Energy-Related	
	Transactions for Congressional Ro-	
	view	280
	Survey of Publications on Replocation, Development and Delivery of Alas-	
\$	kan Oli Market (Report)	182
	U.S. Unitian Resources and Supply	452
2	G.a. GINNEE RESULTES HER SUPPLY	
2	Power Solas	
•	Federal Hydrotteetric Plants Can In-	
	crease Power Sales (Report)	201
6	Powar Systems	
	Repayment Requirements of the Fed- eral Investment on the Tennessee Val-	
8	ley Authority's Electric Power	
	System (Report)	099
8	Power Tronsmission	
× .	California's Contral Velloy Project-	
	<ul> <li>Proposed Power Rate Increase (Re- pert)</li> </ul>	156
		130
	Pacific Northwest Hydro-Thrmal Power Program-A Regional Ap-	
	preach to Meeting Electric Power Re-	
•	quirements (Report)	ló1
	Power Paptor Requirements Imposed	
	cies on their Contempts (Letter)	204
,	Status of Federal and Private Resourch	
	and Development Efforts to Cantorve Energy by Reducing Electric Power	
6		
	Transmission Louises (Shaff model	695
	Transmission Losses (Shiff maly)	625
3	Transmission Losses (Shiff mult) Status of the Grand Cauleo-Rover	625 184
3	Transmission Losses (Shiff maly)	
	Transmission Losses (Shaff mult) Status of the Grand Coulee-Rover Transmusion Line Project (Report)	
3	Transmission Losses (Shaf) study Status of the Grand Casiee-Rover Transmasion Line Projett (Report) Fradiction	
3 3 7	Transmission Lonses (Shaf) made Status of the Grand Cashes-Rover Transmaslon Line Projett (Report) Pradiction Domestic Borriev Resource and Re-	
ə 7	Transmission Lones (Mag/mag) Status of the Grand Castee-Rover Transmission Line Project (Report) Pradiction Despitic Boargy Resource and Re- serve Estimates-Line, Limitantes	184
a 7	Transmission Losses (Shaff may) Satus of the Grand Cosine-Saver Transmasion Line Project (Report) Pradiction Domptile Energy Resource and Re- serve Estimates-lines, Limitations, and Neted Data (Report)	184
a 7	Transmission Lones (Mag/mag) Status of the Grand Castee-Rover Transmission Line Project (Report) Pradiction Despitic Boargy Resource and Re- serve Estimates-Line, Limitantes	184
3	Transmission Losses (Shaff may) Satus of the Grand Cosine-Saver Transmasion Line Project (Report) Pradiction Domptile Energy Resource and Re- serve Estimates-lines, Limitations, and Neted Data (Report)	184
a 7	Trenteninism Louse SNM mady Status of the Grand Cashes-Baver Transmasion Line Profeti (Report) Pradiction Donolis Leargy Resource and Re- sers Estingate-Line, Limitations, and Netedd Data (Appen) Pausa Energy Demani (Speni)	184
a 7 1 8	Trententinium Louses 6My Fluid) Status of the Grand Casies-Baver Transmasson Line Profett (Report) Pradetlen Dorostik Energy Resource and Re- serre Extension-Line, Liertannen, and Neted Data (Report) Prinze Energy Demand (Speech) Prinze Energy Demand (Speech) Prinze Relay An Europhysics of the Poderni Paver	184
a 7 1 8	Treneticitien Louise Shift Had) Status of the Orised Casies-Enver Transmains Like Profess (Report) Pradicion Denositie Energy Resource and Re- serve Estimate-Line, artistator, energy Resource and Report Posses Energy Demand (Speed) Price Pacing Comprising Statemarking on Uni-	184
3	Trenetchina Loues SMU Flad) Sana of the Ornal Casic-Sover Transmation Like Forder: Report Pratematic Like Forder: Report Pratematic Lines, Technister, and Herded Data (Report) Putas Energy Remote Sealers) Price Palley An Bratandon Change Change An Bratandon Change an Data for Casical Status (Science)	184 533 175
a 7 1 8	Treneticitien Louise Shift Had) Status of the Orised Casies-Enver Transmains Like Profess (Report) Pradicion Denositie Energy Resource and Re- serve Estimate-Line, artistator, energy Resource and Report Posses Energy Demand (Speed) Price Pacing Comprising Statemarking on Uni-	184

# Natural Gas Shortage: The Role of Im-ported Liquefied Natural Ous (Report) Energy Digest SEPTEMBER 1977

p

Peoblems of Independent Refiners and Geneline Betaless (Report)	121
Violation of Calling Prices in a Defense Fuel Supply Center Sale (Report)	128
Which Alternative for Energy Policy? (Speech)	168
rice Regulation	
Alternative Energy Proposals (Ten- alternative Energy Proposals Deve-	165
loped by the General Accounting Df- fice in Response to Congressional Inguines Proposals and Supporting Analyses (Textmany)	166
Amount of Natural Gas that Could Be Released from Foderal Price Regula- tores upon Execution of Contracts	
from 1975 through 1985 (Testmony) California's Control Valley Project.	187
-Proposed Power Rate Incesses (Re-	155
The Cost of Living Councils Actions to Assure That Cost Increases for Po- troloum Products Wore Made in Ac-	
cordance with Petroleum Pnong Regulations (Report)	105
Crude Oil First Parchaser	255
Dosessic Crade Cil Pricing Policy and Related Production (Report)	112
Electric Regulatory Activities	408
Energy Policy Decelormaking, Organ-	
mation, and National Energy Gasta (Report)	193
Energy, the Economy and the Budget (Sprech)	169
Exemption of a Refined Petrolearn Pro- duct from the Mandatory Petrolearn Allocation and Prize Regulations	291
Pedaral Energy Administration Annual Report to the President and Con-	
greas The Federal Barray Administration's	290
Compliance and Enforcement Activi- tors (Testances)	119
Federal Energy Advantration's Ef- forts to Audit Damester Crade Oil	
Producers (Report)	133
GAO's Energy Role Speedy Out! Oil Corporation's "Double Dep-	177
ping" on Crude Oil Product Costs (Report)	128
Implications of Deregulating the Price of Natural Gas (Report)	125
Meddle Distribute Price Monitoring Sys- tom	347
Problems in Regulating Natural Gas Prices by the Potenti Barryy Ad- munituation (Report)	139
Problems in the Pederal Energy Ad- ministration's Compliance and En-	1.59
foreement Effort (Report)	118
Refinery Cost Passthrough Reliable Contract Sales Data Needed	348
for Projecting Amounts of Natural Gas That Could Be Deregulated (Re-	
port/ Review of Complaints Concerning the	172
Mandatory Petroleum Allocation Program and the Regulation of Pe-	
troleum Pricing (Report) Suppliers' Correlator with Allocation	102
and Price Regulations (Report)	109

8	
•	Prices Amount of Natural Gas that Could Be Released from Federal Price Regula-
	tions upon Expiration of Contracts from 1975 through LS#5 (Texanorgi
5	Authrus of the Rosegy, Economic, and Budgetary Impacts of H R 6860 (Nug/ study)
	Comments on Proposed Legislation to Change Basis for Government Chargo for Uranizm Banchment Services (Report)
	Cost and Prizing System
,	Crude Oil Entitlements (Bqualiza- tion) Curtailment of Electric Power Service
5	by the Teanessoc Valley Authority (Repeat)
	Electric Rate Demonstration Data Sys- tem
	Brergy Efficiency Ratios of Window Arc-Conditioners (Asport)
5	Energy, the Economy and the Budget (Speech)
2	FEA Household Energy Expenditure Model (HEEM)
3	GAO's Energy Role (Speech)
1	Implications of Deregulating the Price of Natural Gas (Report)
,	The implications of Daregulating the Price of Natural Case (Pateworg)
	Information on Selected Aspects of the Power Operations of Tecnesson Val- iny Authority (Report)
	Learning of Minecula on Public Lands (Report)
3	Middle Distillate Price Monstoring Sys- tern
,	Need for Improving the Regulation of the Natural Gas Industry and Man-
,	agament of Internal Operations (Re- port)
	Need for the Pederal Power Commu- sion to Improve the Regulation of the Natural Gas Industry and Manage-
8	ment of its internal Operations (Te-
5	Neoclassical Regional Growth and En- ergy Price Model
	Problems of Independent Refiness and Gaseline Retailers (Report)
,	Procurament of Porcigs and Damestic Petroleum by Department of Dofense (Report)
	Refnery Cost Passthrough
	Suppliers' Compliance with Aliocation and Price Regulations (Report)
	Transfer Pricing System Which Alternative for Energy Pelicy?
	(Speech)

Violation of Colling Prizes in a Defense Feel Supply Center Safe (Report)

# Pricing Violations

		Domestic	
Produ	icers (Rej	ant)	

128	Printing Legality of Administration Actions in Printing and Storing Gas Coupons (Lever)	104
137	Printing Casis Allegas Waste of Money in Printing Costs on Gas Retioning Coopens (Lever)	110
122		
	Private Industry The Exclusion of the Administration's Proposal for Government Assistance to Permit Unanyan Enroducent	
131 374	Groups (Testmany)	053
332	Privately-Owned Utilities Bulk Electric Powtr System Reliabil-	
117	Ry Corporate, Financial, and Economic In- formation Prio (RISCEID)	404
345	Hydro and Electric Returning Data Re-	404
005	ports Power Surveys and Systems Evalua-	406
169	bin	409
393 177	Processing Plants Status and Obstacles to Commercializa- tion of Coel Lieue/setion and Gasifi-	
135	cation (Report)	085
135		
	Procurement Contracting Oat Basic Planning and	
167	Management Program Parotions (Re- port) Contracts Information System (CIS)	085 430
211	Controlete incorration system (Cats) Controletate of Electric Power Service	450
347	by the Tempare Valley Authority (Report)	117
	Energy Efficiency Ratios of Window Are-Conditionens (Report)	-005
113	Energy Research and Development Administration's Contragency Plan for More Backhmeat Capacity at Porteneesth, OH (Report)	052
	Fiscal Imperi of Ecurgy Price Changes	904
114	on State and Local Government Par- chases of Goods and Services	395
399	The Legality of the Reparted Use by the Energy Research and Development	
121	Administration of Centum Fossil Ba- argy Pands (Letter)	087
991	Management of and Plans for the Nevel Potoolesen Reserves (Report)	227
349	Policies and Programs Being Developed To Expand Procumenter of Products Containing Recycled Materials (Re-	
109	peri)	023
351	Processment of Fossign and Domestic Petroleum by Department of Defense	
169	(Report) Survey of Federal and Electric Unity	091
	Procurements of Power Equipment (Report) Using Solid Waste to Construe Re-	162
	sources and to Create Energy (Report)	
133		013

013

#### Procurement Procedures

Procurement Proceedures Contrasting Out Basic Planning and Managament Programs Plancions (Re- jord) The Lapsity of the Reported Use by the Energy Research and Development Administration of Certam Focsik Be- ergy Facts (Lease)	087 087	
Production Control Amount of Natural Gen that Could line Released from Poderal Pines Regula- tions upper Expansion of Controlway from 1975 through 1985 (Teanwarp) Deredopseter of Podemal Coal Re- sources (Tentmany)	137 223	
Productivity Statistical Data on Petroleum and Pe- troleum Products (Report)	079	,
Productivity in Government Review of the Operations Dovinon of the Federal Energy Administration (Report)	115	
Program Administration Passis Northwest Hydro-Thermal Power Program-A. Regional Ap- presente Meeting Electric Parket Re- quirements (Report)	161	
Program Evaluation The Charging Role of the General Ac- ocurring Office in Rearry Informa- tion and Data Programs (Speed) Pederal Austimees to State and Local Governments in Ouverlaging and Ad-	186	
stitustoring Energy Programs (Report)	143	1
Importance of Financial Data in Evi- liating Federal Energy Programs (Speech) Nuclear Regulatory Commission's Pro- prant for Evaluating Environmental	146	1
Impacts of Construction and Opera- tion of Nuclear Powerplants (Report) Orabore Losse Management Pagement	051	
Scudy for the U.S. Geological Servey	250	
Pacific Northwest Hydro-Thermal Power Program-A Regreeal Ap- proach to Mooting Heatric Power Re- quirements (Report)	161	,
Pregram Management		
	143	1

Project Indopundence	
Acetienzed Outer Continental Shelf Development (Testaway)	216
Accelerated Outer Continental Shelf Development (Testwory)	219
Development of the Quier Contantatal Shelf Feeda Fael Resources (Ter-	
amangi Outlook far Fedroni Gonis to Accelar-	215
att Lensing of Oil and Gas Resources on the Ottor Costmencial Shelf (Re- pon)	214
Review of the 1974 Propert Independ-	178
ence Swalastron System (Asport)	1/1
Project Independence Evaluation System	
Resorves Allocation and Miler Cost Model (RAMC)	380
Project Managamint Pacilic Narthwest Hydro-Thermol	
Power Process-A Regional An-	
proach to Meeting Electric Power Re- quinements (Report)	161
Southeastern Poderal Power Program-	
-Ficancial Management and Program Operations (Report)	174
Projact Utility Fedral Energy Administration Efforts	
to Audit Pael Oil Supplies of Major	
Utility Companies (Project Utility) (Report)	126
The Poderal Energy Administration's	120
Compliance and Enforcement Pro- cemes (Textheoug)	125
Prepagends Evaluation of the Publication and Dis-	
tebuico of "Shedding Light on Pacta about Nuclear Energy" (Report)	064
Propana	
Market Shares System	370
Propate/Batane Allocation System	349
Refintry Cest Passifreegh Subpart L	369
Prospecting Role of Foderal Cell Responses in	
Meeting Energy Goals Needs to be	
Determined and the Lossing Process Improved (Report	226
Protective Systems Intervences Needed in the Program	
for the Protocico of Special Nuclear Material (Report)	034
Company (Company)	~
Prudhoa Bay (AK)	
Survey of Fublications on Exploration, Development and Delivery of Alas-	
kan Oli Market (Report)	189

Public Buildings	
Entrgy Conservation in Pederal Office Buildings in California (Report) How Federal Agencies Can Conserve	005
Utilities and Reduce their Cost (Re- post)	002
Progress and Problems of the Govern- ment's Utility Conservation Progreen (Report)	621
Public Heelth Report to the President by the Nuclear Regulatory Commission	218
Summery of Absormel Occurrences Reported to the Nuzion: Regulatory Committeen	316
Public Lands Accelerated Outer Continental Shelf Development (7/attivaty)	216
Accelerated Outer Centinontal Stell Oevolupment (Testamony) Administration of Regulations for Sec- face Exploration, Mining, and Recks-	219
mation of Public and Indian Coal Lands (Report) Agreement between the Scoretary of the Interior and Officials of the State of Unit Perceburg to Oil Shale Lances	693
(Lentr) Compensatory Royalty Agreements Department of the Interior's Proce- duces for Approving Coal Mining	209 272
Flacs (Report) Department of the Interior's Viows of Comments on Administration of Regulations for Surface Exploration, Mening, and Reclamation of Public and Indian Coal Lands (Report)	951 045
Development of Federal Coal Re- sources (Testamony)	113
Development of the Outer Continental Shelf Fouril Fuel Resources (Ter- simony)	215
Federal Cool-Leasing Program of the Dapacement of the Interior (Report) Purther Action Needed on Recommen- dapons for Improving the Adminis-	221
tration of Pederal Cosi-Leasing Program (Report) Grants of Rights-of-Way for Pipelines	317
through Pederal Lands Issues in Leasing the Atlantic Opter	273
Continental Shelf (Testimony) Leasing of Manerala on Pablic Landa (Report)	913 911
Management of and Plans for the Navai Petroleum Reserves (Report)	227
National Energy Policy: An Agenda for Analysis (Report)	191
Oil and Ges Lessing on Federal Lands (Report) Outer Continental Shelf Oil and Gas	210
Development Improvements Needed in Determining Where to Lesan and at What Dollar Value (Report) Outer Configuration Shelf Sale #35:	218
Problems Selecting and Evaluating Land to Lease (Report)	231

Energy Digest SEPTEMBER 1977

eral forestation in the Teancaster Valley Aschonay's Electric Pewer

The Reamer Interview Program of the Atomic Energy Commission (Report)

Badgatary Impacts of H.R. 6860 (Stell study) -----Rediction Operating Cost and Environmental Redenuon Metrikoring at the Shroringent Averue Power Station (In and 229 Radiation Accidents Strury of Federal Programs and Pals extra for Disposing of Obselute and United Nuclear Facilities (Report)

> national Contrals over the Pracella Uses of Nucleor Energy (Repart)

Stiected Aspects of Nuclear Powerplant Reliability and Eleconomics (Re-

Environmental Information Analyza Center (ELAC) ERDA Report of Roview of Design

Construction, and Pinaning of Pistonum Processing Pacifilian

Nevada Applied Boslary Information Conter Issues Related to the Closing of the Nucloser Fuel Services, Inc., Reprocess-ing Flant at Weat Valley, New York (Testimory)

Operating Cost and Environmental

The Reactor Inspection Program of the Atoric Energy Commission (Report)

Report to the President by the Nuclear Regulatory Commission The Safeguards and Security of the Energy Research and Development Ad-

ministration's Rocky Plats Pistonian Paolity (Report) Survey of Federal Programs and Poli-

elos for Disposing of Obsolete and Unused Nuclear Facilities (Assert) This Country's Most Exponence Light

Water Renetor Safety Test Facility

(Report)

Radiation Monitoung at the Shippingport Atomic Power Station (Reauti 000

System (Reserve) Requested Utility Fate logranse by the Potenar Electric Power Compare

Analyses (Testimonal Analysis of the Energy, Econcesio, and

187

-(Report) Quality Control 164

017 Quolos Alignative Energy Proposals Decaloped by the General Accounting Offirst at Berrome to Consumption Incranes. Proposals and Supporting

474

472

194 418 **Radiation Materials** Attenuent of Linted States and here.

œ

406

224 Radiation Safety -----

021

337

408

220

147

141

021

101

Public Relations
The Costial Zone Management Pro- gram An Uncertain Puture (Report)
Program of Energy Conservation Pro-
stam for Censioner Products Other
Thun Automobiles
Staffing of Federal Energy Adamastra- tion's Office of Communications and
Public Affairs (Report)
Public Transportation Energy Conservation Financing (Ter- among)
Public Utilibies
Bulk Electric Power System Reliabel- Ry
Corporate, Pinanceal, and Economic In- formation File (RISCEID)
Electrical Pinancial Forecasting Model (BSB Model EUFINANCE)
Electric Regulatory Activities
Znergy Conservation Practices En- centraged by States (Report)
An Evaluation of the Federal Power
Commission's Rolemsking on Utili- ties' Construction Work in Progress (Report)
Federal Energy Administration Efforts
to Audit Puel Oil Supplies of Mejor Utility Companies (Project Utility) (Report)
PPC Library
How Federal Agencies Can Conservo Utilines and Reduce their Cost (Re- port)
Hydro and Electric Recurring Data Re- ports
Library of Executed Electric Power Contracts
Power Flow Program
Power Surveys and Systems Evalua- tion
Progress and Problems of the Govens- ment's Utility Conservation Program (Report)
Real-Time Operations, Dispatch and Scheduling (RODS)
Public Utility Rotos
Electric Regulatory Activities An Evaluation of the Federal Power
Commission's Relemaking on Utili- ties' Construction Work in Program
(Report)
How Pederal Agencies Can Conserve Utilities and Reduce their Cost (Re- port)
Information on Selected Aspecta of the Power Operations of Tennessee Val- loy Authority (Report)
Management Improvements Needed in
the Federal Power Commission's Processing of Electric-Rate-Increase Cases (Report)
Program and Problems of the Govern- ment's Utility Conservation Program (Report)
Proposed Power Rate Increase of the
Bureau of Reclamation's Central Val- lay Project (Testimony)

Repayment Requirements of the Pod-

	Radioscrive Contemination Nevata Applied Ecology Information Center	452
127	Radioactive Materials Issues of Nuclear Fact Reprocessing	
031	and Disposal of High Lovel Nuclear Waste (Speech) Issues Related to the Cleanar of the Nu-	058
031	clear Pael Services, Incorporated, Re- precessing Plant in West Valley, New York (Report) Issues Related to the Cleaning of the Nu-	ana
	clear Pixel Services, Inc., Repeacess- ing Plant at West Velley, New York (Testmony)	071
166	Survey of Poleral Programs and Pol- ers for Dupoing of Obsolore and Unused Nuclear Facilities (Report)	057
139	Redioactive Pollution issues of Nuclear Fael Reprocessing and Disposit of High Level Nuclear Watte (Speech) issues Related to the Clowing of the Nu-	068
042	clear Fael Services, Inc., Repeases- ing Plant at West Valley, New York (Tertwoog)	671
657	Redionclive Waste Issues of Nuclear Fuel Reprocessing and Disposit of High Level Nuclear Waste (Speech)	048
10	Issues Related to the Closing of the No- clear Fool Services, Incorporated, Ro- processing Plant at West Valley, New York (Report)	070
10		
850	Redionetive Weste Dispose! Considerations for Commercealizing the Liquid Metal Fast Brooder Reso- tor (Report)	966
448	Income of Nuclear Pari Reprocessing and Duposal of High Level Nuclear Wasse (Speech) Income Related to the Closing of the Nu-	068
229	clear Fael Services, Incorporated, Re- processing Plant at West Valley, New York (Report)	979
452	Issues Related to the Closing of the Nu- clear Fael Services, Inc., Reprocess- ing Plan at West Valley, New York (Terminopy)	971
071	Neverthe Applied Ecology Information Center Scienced Aspects of Nuclear Prever-	452
042	pinn Reliebility and Economies (Re- part)	050
031	Radioactivity leformaton-Gathering Activates of the Nuclear Regulatory Commission (Re- port)	103
315	pero	103
060	Rediobiology Repart on the Status of Major Cen- struction Projects Bapementing Sig- efficient Verlances	500
057	Radlographs Information-Gathering Activities of the	
950	Nuclear Regulatory Commission (Re- port)	188

	Review of the Progress and Problems of Researce Recovery Since the Passage of the Researce Recovery Act of 1970	
	(Testmony) Using Salid Watte to Conserve Re-	016
	sources and to Create Energy (Report)	013
	Recycling of Weste Products Recycling of Materials	260
	Resource Recovery and Source Roduc- tion	279
	Solid Wang Management, Collection, Dispessi, Resource Recovery, Recy- cling Program	357
	Referendo Evaluation of the Publication and Dis- tribution of "Shedding Light on Poets about Nuclear Energy" (Report)	064
	Refineries Crude Oil Bay/Sell Program Crude Dil Emittements (Bqualiza-	350
	tion)	352
	The Federal Energy Administration's Compliance and Enforcement Activi- tuss (Platescerg)	119
ı	The Federal Energy Administration's Compliance and Enforcement Pro- cases (Texamony)	125
	The Poderol Energy Administration's Progress is Budtreeting its Compl- ance and Enforcement Program (Re-	
ł.	port) Joint FEA/BOM Petroleum Reporting	120
	System Problems in the Poderal Energy Ad-	375
	minutrition's Compliance and En- forcement Effort (Report) Problems of Independent Refiners and	113
8	Gasolene Retailors (Report)	121
2	Rolinory Cost Passthrough Statistical Data on Petroleum and Po-	348
	troleum Products (Report)	679
	Trends in Referry Capterty and Uili- zation of Petroleum Refineriou in the United States and Foreign Refinery Exporting Centers	360
,	B-4	
	Refiners Effects of a Change in Size Standard for Small Beniness Petroleum Refiners (Accord	149
3	Patienda	

			ents Needed in
the	Foderal	Power	Commission's
Pro	essing of	Electric	-Rate-Increase
Cas	a (Report	,	

#### Refuse Dispasal

Problems Caused by Coal Mining Neter	075
Federal Reservoir Projects (Report) Resource Recovery and Source Reduc-	u/s
ton	279

### Energy Digest SEPTEMBER 1977

153

#### Pationing Coupant Leastly of Admonstration Actions in Preture and Statute Gas Coupers

Lember of Protos Gatching Rabature Compared by Federal Esteray Advanta-

#### Reactor Fuel Reprocession

Considerations for Constructions the Locald Maral Day Beneter Very tor Beneti

bases of Nuclear Fael Representation and Duposal of High Lovel Nuclear Waste (Speech)

Issues Related to the Classes of the Neclear Pael Services, Incorporated, Re-Yerk (Scont)

#### Reations

- Company on Energy Research and Development Addamstration's Promoted Arrangement for the Clinch River Breeder Resear Demanatration Plant Project (Report)
- The Energy Reicarch and Developmost Administration's Propaged Contract with Project Monagement Computer Comparently Educa and the Tennestee Valley Authoney (Reaut)
- Fest Flux Test Facility Pressan (Soff mahi

issues Related to the Cleante of the No olear Fael Services, incorporated. Remacaning Hant at West Valley, New York (Securi

- Louid Metal Fest Breeder Resource Plant Parameter Infortuition Sys-1000
- Poor Massagement of a Nuclear Light Water Reactor Safety Project (Report) Problem Areas which Could Allest the Development of Schedule for the Clusch
- River Brouder Reactor (Stall stude) The Proposed Contract for the Clasch River Breeder Rescion Project (Ter-

Assess Retroy Information File

The Research Inspection Program of the Atoms Energy Commission (Report) This Constry's Most Expensive Light

Water Reactor Safety Test Facility (Recerc)

#### Reclamation

- Administration of Regulations for Sec. face Exploration, Mining, and Replastation of Public and Indean Coal Lands (Report)
- Department of the Interior's Views of Constants on Administration of Regulatores for Suches Exploration, Manag, and Reclamation of Public and Indian Ceal Lands (Record)
- Parther Action Needed on Recommendations for Improving the Adminisuntion of Federal Coel-Leasurg Prostart (Report)
- Opportunizes for hyprovencous in Reolavrang Strap-Minod Lands under Cool Parchese Contracts (Reservi

#### RECON

RECON	(R timote	CONtale)	

#### Perarda

Comments on H.R.	11212, 93sd Con-
goess, a Bill to	Futher Research,
Developments.	est Connercust
Detterstrations is	Geethermal En-
ergy (Lener)	

....

19/

172

144

03

07

027

#### Records Accessibility Access of the Federal Power Commis-

- not to Roman of Reclamation Re-Pederal Power Act (Leare) Actions Needed to Immuse Federal Ef-
- farts in Collection, Answorg, and Reporting Energy Data (Report) Amendment of the Pederal Energy Ad-
- minintration Act of 1974 and the Untenance of its Execution Date (Leber)
- The Changing Role of the General Acequating Office in Energy Information and Date Property General
- Energy Data Collection in the Pedoral Gaugement (Terranel
- Patare Energy Dented (Speech) GAD's Energy Role (Speech)

Hear Salar Parroy Was Toward as the APC Chairman's Seport, "The Notion's Energy Patient" (Report)

#### Records (Forms)

040

.....

425

043

640

008

427

(Termani

#### Records Management

Access of the Poderal Power Commissize to Barren of Performing St. condu to leasure Compliance with the Pederal Power Act (Leave) Ways to Strongthan Congromstanal Contral of Energy Canstraction Projects.

Policies and Programs Being Daveloped To Espand Proceedment of Products Containing Reported Materials /Reconti

#### Recycled Of

Pohaies and Programs Burry Developed To Exceed Procurement of Products Contanting Recycled Materials /Repart

#### **Recycled Paper**

#### Pohnus and Programs Being Developed To Expand Procurement of Products Connecting Rocycled Materials (Re-

Deportunities for Mare Effective Use of	
Animal Manter (Assert)	

- The Energy Information Act, S. 1864
- Other Than Nuclear (Reserv?)

**Retycled Materials** 

#### Regional Mettallers Regional Industrial Meduratore System (RIMS) Regulations Aliceed Watte of Money in Primma Costs on Gas Rationing Coupora (Letter) Department of the Internet Study of Stut-is Oil and Gas Well Corneletions and Lastes-GAO Observations (Report) Entray Pohty Decisionmaking, Ores ization, and National Energy Goala (Report) Poderal Energy Galdelines Weekly Supplement Pinancial Disclosures by Employees Performing Peopleons under Entrar Policy and Conservation Act The Goological Survey's Inadequate Action on Recommendations Concertifing Inspection and Regulation of Outer Continental Shell Oil Orerations (Report) Violation of Colling Prizes in a Defense Fuel Supply Center Sale (Report) **Regulations** Compliance Department of the lateror's Procedures for Approving Ceal Mining Plans (Report Pederal Energy Administration's Efforts to Audit Oscentia Crade Oi Producers (Report) Pederal Energy Administration Efforts to Audit Parl Oil Semplies of Major Utility Commanies (Project Utility) (Report) The Federal Energy Administration's Compliance and Enforcement Artistic tics (Textimery) The Federal Energy Administration's Corneliance and Enforcement Procomes (Tennens) The Federal Energy Administration's Progress in Redirecting Its Comp more and Esforcement Program (Re-Need for Immoving the Regulation of the Natural Gas Industry and Management of Internal Operations (Re-Problems in Regulating Natural Gas Frices by the Federal Energy Administration (Report)

- Problems in the Poderal Energy Administration's Compliance and Enforcement Effort (Report)
- Problems in the Federal Energy Office's Implementation of Emergency Petroleum Allocation Programs at Regional and State Levels (Report)
- The Reactor Inspection Program of the Atomic Bacrgy Commission (Report)
- Requests to Regulatory Ageneles by Ol Companies for Deviations from Standard Procedures (Report) Suppliers' Compliance with Allocation
- and Price Regulations (Report) 10

Regulations Enforcement Administration of Regulations for Surface Exploration, Mising, and Rockimation of Public and Indus Coal Lands (Report)

110

224

285

297

222

128

126

125

113

116

- Department of the Interior's Viewe of Comments on Administration of Regulations for Surface Exploration, Minney, and Reelamition of Public and Indus Ceal Lands (Report)
- Pollowup on Ceruan Matters Concerning the Inspection and Regulation of Outer Continental Shelf Oil Operations (Report)

110

100

142

122

165

173

158

185

145

157

140

244

125

177

m

Improved Inspection and Regulation Could Reduce the Possibility of Odspills on the Outer Continental Shell (Report)

#### Regulatory Agencias

- Access of the Federal Power Commission to Bureau of Reclamation Reoceds to Insure Compliance with the Federal Power Act (Letter)
  - Actons Taken by the Pederal Power Cantralision on Prior Recommendations Concerning Regulation of the Natural Gas Industry and Management of Internal Questions (Resout
  - The Administration of the Petroleuon Set-Ande Program by State Energy Offices (Report)
  - Alternative Energy Proposals (Tea-
  - Amendment of the Federal Energy Administration Act of 1974 and the Extension of its Expiration Date (Letter)
  - A Bill to Establish a National Energy Information System (Testimory)
  - A Bill to Extend the Federal Energy Administration Act of 1974 (Teralenang)
  - The Changing Role of the General Acscenting Office in Energy Information and Data Programs (Speech)
  - Comments on Selected Aspects of the Administration's Proposal for Govemment Assistance to Private Unation Enrichment Groups (Report)
- The Cast of Living Council's Actions to Aware That Cost Increases for Petroloum Products Were Made in Acecodance with Posoleum Peooleg Regulations (Report)
- Energy Data Collection in the Federal Government (Raivecey)
- Energy, the Economy and the Euriget (Speed)
- The Expertation of Coal (Report) The Federal Energy Administration's
- Compliance and Enforcement Processes (Testimony) The Federal Torry Administration's
- Progress in Redirecting Its Compliance and Beducement Program (Report) GAC's Energy Role (Speech)
- Improving the Operations of the Federal Basegy Administration Region X Office (Report)
- Information-Gathering Activities of the Nuclear Regulatory Commission (Repart)

Information on Certain Oil and Gas Indestry Corrections Responsebilities /Re-105 Management Incomposition Newled in the Federal Power Commission's Processing of Electric-Rate-Inscense Cases (Report) Management of the Atomic Energy Commission's Controlled Thermany clast Research Program (Report) 195 Parbleme in Montiferre Developing and Using Goothermal Resources 100 (Second) Problems in Licensing Hydroelootrie 150 Projects (Report) Proposed Power Rate Increase of the Roman of Replamation's Central Valley Project (Testimons) 101 Reducing Nuclear Propertient Lendtarea: Many Obstacles Remain (Rement 0.05 Requested Utility Rate Increase by the Potessae Electric Power Company (Senter) Requests to Regulatory Agencies by Oil Commiss for Devisions from Standard Procedures (Record) 140 Review of the Operations Dyvalen of the Federal Energy Administration 115 (Leven) Which Altomatus for Recease Policy? (Secci) Regulatory Policy Access of the Federal Power Commission to Bureau of Reclamation Records to Insure Correliance with the Pederal Power Act (Lease) 141 Actions Taken by the Federal Power Complision on Prior Recommende tions Concerning Regulation of the Natural Gas Industry and Managemeet of Internal Operations (Report) The Administration of the Petroleum Set-Aside Program by State Energy Offices (Report) Alleged Watte of Money in Printing Costs on Gas Rationing Coupons (Lenvi 110 Alternative Energy Proposals Develaped by the General Accounting Office is Response to Congressional Inquines: Proposals and Supporting Analyses (Pestimone) Amendment of the Poderal Energy Administration Ant of 1974 and the Extension of its Expiration Date (Lener) 175 America's Enorgy Petures (Speech) Amount of Natural One that Could Be Released from Federal Price Regulations upon Extendion of Contracts from 1975 through 1985 (Tenness) 157 Department of the interior Stedy of Shot-In Oil and Gas Well Completions and Leases-GAO Observations Report Domestic Crude Oil Pricing Policy and Related Production (Resort) Borrow Conternation Practices Encoursed by States (Record) 004 Bourgy, the Beenemy and the Budget (Sweek)

The Exportation of Coal (Report) 244

#### Regulatory Policy

The Federal Energy Administration's	
Compliance and Enforcement Activi- lacs (Testimous)	10
The Federal Energy Administration's	
	12
econes (Teamony) Federal Hydroelector Plants Can In-	123
erense Funer Sales (Appril)	201
Followap on Certain Matters Concern-	
ing the Inspection and Regulation of Outer Continental Shelf Oil Opera-	
tures (Report)	200
Funds Credited to the Account of the	
port License Pees (Report) Future Energy Damand (Speech)	124
GAO's Energy Bale (Speech)	172
The Groboural Super/s Indecourte	
Action on Recommendations Con- century Inspection and Regulation of	
century Inspection and Regulation of Outer Continental Shelf Oil Opera-	
tions (Report)	212
Gulf Gil Corporation's "Double Dip-	
pong" on Crude Oil Product Costs (Report)	138
Implications of Deregulating the Price	1.54
of Natural Gas (Report)	135
The Imphotocols of Delegations the Price of Natural Gas (Terranasy)	
Price of Natural Gas (Terransay)	135
Improving the Operations of the Fed- aral Energy Administration Region X	
Office (Report)	111
Need for Improving the Regulation of	
the Natural Gas Industry and Man- agreemat of Internal Operations (Re-	
part	113
Need for the Foderal Power Commis- sion to Evaluate the Effectiveness of	
the Natural Gas Certainent Policy	
(Report)	130
Nord for the Pederal Power Commis- sum to Impuss e the Regulation of the	
Neural Gas Industry and Manage- ment of Its Internal Operations (Tas-	
ment of Its Internal Operations (Tes- interny)	114
Problems Caused by Coal Musing Near	114
amoupt	076
Problems in Identifying, Developing, and Using Octobernal Resources	
(Report)	192
Problems in Regulating Natural Gas Prizes by the Poderal Energy Ad-	
Prizes by the Poderal Energy Ad- munistration (Report)	139
Problems in the Redent Decrew Ad-	
forcement Elfort (Report)	138
Problems of Independent Refiners and Gasoine Retailers (Report)	121
The Purchase of Short-Supply, Baargy- Related lisms through the Experi- import Back of the United States	
Related Hurs through the Export-	
(Report)	235
Requests to Regulatory Agencies by Od Companies for Devisions from	
Companies for Devisions from Standard Procedures (Report)	148
Review of Contribute Concerning the	140
Mandatory Petroleum Allocation Program and the Regulation of Pe-	
Program and the Regulation of Pe- troleum Pricess (Report)	192
Meeting Energy Goals Needs to be Determined and the Leasing Process	
Improved (Seport)	228
Southeastern Federal Power Program	
-Financial Management and Program Operations (Report)	174
160	

9	This Country's Most Expensive Light Write Reactor Safety Test Pacify (Report) Which Alternative for Energy Policy? Spreed	059 168
1	Roinshursements Fands Creduted to the Account of the Virgin Islands for Rolands from In- port License Foes (Report)	124
4	Reliability Balk Electric Power System Reliabel- ity Selected Aspects of Natebur Power- plant Reliability and Economics (Re- port)	404 050
	Reprogramming of Approprioted Fords Report on Reprogramming Action for the Nuclear Materials Program	314
	Research Energy Resource Data Systems Geologie Surveys, Investigations, and Research Program Heterencous-Guthering, Activities of the	328 327
	Nuclear Regulatory Ceremission (Re- port) Land and Mineral Conservation Infor- mation System Musing Research	188 326 323
	Research Information Management System (R1M5)	324
	Research and Development Attenuative Pack for Aviation (H.R. 12113) (Tatethony) America's Entryp Potters (Speech) Can the U.S. Breeder Resear Develop- ment Program Be Accelerated by Us-	154 171
	ing Foreign Technology? (Report) Certain Actions That Can Be Taken to Help Improve This Nation's Usuaium Picture (Report)	245
	Chamberts on H R. 11212, 93rd Con- gress, a Bill to Further Research, De- velopment, and Commercial Demonstrationen in Geothermal En- ergy (Lener)	195
	Energy Research, Dovelopment, and Demonstration Inventory	407
	BRDA Energy Research Abatracta (ERA) An Evaluation of Proposed Federal As- sistance for Pronoting Commercial- cettion of Emergina Energy	438
	Technologies (Report) An Evaluation of Proposed Pederal As- sistance for Picanelae Commerciali-	151
	ration of Emerging Emergy Technologies (Tantivany) Pederal and State Solar Energy Ro- search, Development, and Demoz-	152
	mution Activities (Report) Federal Cost Research-Status and Problems to Be Resolved (Report)	200

Planning for Commercial-sized Demonstrations of Energy Technolo-	
gies (Testmony)	141
Fostal Energy Update How Solar Energy Was Treated in the	426
AEC Charmon's Report, "The Na-	
tites's Energy Patter" (Report)	158
How the Federal Government Partici- pates in Activities Affecting the En-	
ergy Resources of the United States (Report)	015
Interested Believes and Dearedness for the	CV4
Exploration and Development of Conce Continential Shell Resources (Testimory)	232
Improvements Needed in the Federal Ethanood Gil and Gas Recovery Re-	
search, Dowelopment, and Demon-	
stration Program (Report) International Cooperation in Energy	155
Research and Oovelopment (Tes-	
timony) The Liquid Metal Fast Breeder Reactor:	246
Promises and Uncertainties (Shaff	
study) Management and Pandang Aspeols of	049
Three Normalian Energy Research.	
Development, and Demonstration Subprograms (Report)	201
Management of the Atomic Energy	105
Contraission's Controlled Thermonu- clear Research Program (Report)	195
National Plan for Energy Research,	
Development, and Demonstration: Creating Energy Choices for the Fu-	
ture	428
Opperturning to Improve Planning for Solar Energy Research and Develop-	
ment (Report)	202
Problem Arres which Could Affect the Development Schedule for the Clinety	
River Breeder Reactor (Sigf study)	040
Problems in Identifying, Developing, and Using Geothermal Resources	
(Report)	199
Project Operations System (POS)	361
RECON (REmote CONsole) Report by the U.S. Energy Research	440
and Development Administration	
Status of Construction Projects and Other Onto	313
Report on Activity and Program Index	
of the Energy Research and Develop- ment Administration: Statut of Con-	
struction Projects and other Data	312
Report on ERDA's Nonnuclear Activi- tics	310
Roview of Selected Federal and Privage	
Solar Energy Activities (Report) Solar Energy Update	197 437
Status of Federal and Private Research	437
and Davelopment Efforts to Conserve Energy by Reducing Electric Power	
Transmission Losses (Staff analy)	025
Research Grants The Cossial Zone Management Pro-	
gram: An Uncertain Future (Report)	187
Federal and State Solar Energy Re- sourch, Development, and Demon-	
startion Activities (Report)	200

# Energy Digest SEPTEMBER 1977

Research Monogement Development of Interagency Relation- ships in the Regulation of Nuclear Matenalis and Pacificus (Report)	635	Progress and Pachterns in Developing Nuclear and Other Experimental Technologies for Recovering Natural Gas in the Recity Meaning April (Re
		part) Using Solid Waste to Conserve Re-
Reservoirs Problems Crusted by Coal Mining Near Federal Reservoir Projects (Report) Psychieres Caused by Coal Mining Near	075	societt and to Create Energy (Aspert
Federal Reservoir Projects (Teo- Loneng)	076	Resource Utilization A Bill to Estend the Poderal Energy Administration Act of 1976 (Ter scient)
Residual Fuel OII	374	Improved Policies and Procedures for the
Cost and Pricing System Market Shares System	3/4	Exploration and Development of Oater
OECD Energy Domand Model	384	Contingenal Shak Resources (Testessory)
Regional Econometric Demand Model and Auto Similation Model (RD4)		
	385	Retailers
Subpart L	359	Problems of Independent Refiners and Gaseline Retailors (Report)
Resource Allectation Amena's Energy Pateres (Speeck)	171	Retail Trade
Bookkeeping System	420	Potroleum Market Shares
Budget History Tables	312	
Crude Oil Bay/Sell Program	350	
Crude Oil Estationents (Equaliza-		Retrofitting
non) Pederal Energy Administration Annual	352	Project Conserve
Report to the President and Con-		
gress FPC Budget Files	290	Revenues
Mandstory Oil Imports Project		Economic Implications of Current World Oil Prices (Staff study)
(MOIP)	353	Oil and Oas Leasing on Federal Lasis
Propage/Bataze Allocation System	349	(Report)
Southeastern Foderal Power Program -Financeal Management and Program Operations (Roport)	174	Outer Continental Shelf Sale #35: Problems Sciencing and Evaluating
Subpart L	359	Land to Losse (Report) Provisions of Nevrajo and Hopi Coel Lesses ( <i>Report</i> )
Resource Development Prozecusg Infrastructure is Energy Development Areas of the Western States (Speech)	081	Revenues and Costs Allocated to Power Operations at Multiple-Purpose Pro- jects in the Southwattern Poderal Power System (Report) Southeastern Pederal Power Program-
Resource Evaluation Centervation Davision Task Force Re- port on the Ombore Lasse Manage- ment Program Study for the US		-Financial Monagement and Program Operations (Report)
Geological Survey	247	Right of Way Oranta of Rights-of-Way for Pipelines through Foderal Lands
Resource Management Lessing of Minerals on Public Lawls		
(Report)	211	Rivers
Problems in Identifying, Developing, and Using Geothermal Resources (Report)	199	Annual Report on the Columbia River Power System
Review of the Progress and Problems of		Consolidated Financial Statement of
Resource Recovery Since the Passage of the Resource Recovery Act of 1970 (Testimony)	016	thet Federal Columbia River Power System
Resource Recovery Outer Continental Shelf Oil and Gas Development Improvements Needed		Rocky Flots Nucleos Weapons Flort An Unclassified Digest of a Classified Roport Entitled "Safety and Tran-
in Determining Where to Lease and at What Dollar Value (Report)	218	sportation Safeguards at Rocky Fints Nuclear Weapons Pinnt" (Report)

Royalilles Index. Natural Resources-Part II: Cont. Cit. and Gas-Settor Manage-	07:
Indura Natural ResourcesPart II: Cost, Gil, and GasBetter Manage-	
ment Can Improve Development and Increase Income and Europeyment	222
	211
	210
	200
	253
Royalty Accounting System Study of Solid Mineral Leasing Activities	254
Security Systems at Commercial No-	240 005
Sofety Criticality Data Center	442
Development of Increasency Relation- ships in the Regulation of Nuclear Materials and Facilities (Report)	053
ERDA Ropon of Roview of Dougs, Construction, and Planning of	195
Information Center for Emergy Safety (ICES)	430
Issues Released to the Closing of the Nu- elenc Fusi Services, Incorporated, Ro- processing Piece at Wost Valley, New	
York (Report)	070
The Liquid Motel Fast Doceder Reactor:	
The Liquid Motal Fast Boseder Reactor: Promises and Uncertainties (Sig) multi	045
The Liquid Motal Fast Boseder Reactors Provides and Uncernishines (Day) and/d The Reactor Inspection Programs of the Alcenic Energy Commission (Report)	04P
The Liquid Metal Fast Boarder Reastor: Provides and Uncernshitting (Staff mail) The Reaster Inspectane Programs of the Atomic Uncery Commission (Report) Beparts of the Review Commission on Safety of Orter Continuous Shell Fe-	
The Light Meas Fest Davder Renear Provises and Uscensinities (Soff mode) The Resource Inspection Program of the Assertic Unergy Controllation (Report) Reports of the Review Committee on Sofety of Orter Consistent Bleff Pe- trologies Operations in the United States Geologiesi Survey	
The Liquid Mean Fest Bounder Research Provises and Uscentralistics (Day mode) The Resolve Interpretation Program of the Asteric Beerg Commission (Report Beering of the Reverse Commission (Report Beering of the Reverse Commission (Report States) (Reverse Commission (Report Beering of the Reverse Commission (Report States) (Reverse Commission (Report Beering of the Wave Groups on OCS)	63

Realizer Flores Blocks along Realizer

677

600

....

232

121

284 244

237

210 Shelf Sale #15-

211

004

174

273

275

274

667

Pacifity (Report) 060 Summary of Absornal Occurrences Reported to the Nuclear Regulatory 316 Commission

This Country's Most Expensive Light Water Reactor Saloty Test Paulity (Report) 059

#### Sofety Regulations

Sofety Regulations Energy Reorganization Legislation (Terrimony) Role of the International Alectric En-	194	Sectify Assessment of United States and Inter- national Controls over the Peechl Uses of Neoley Energy (Appro)	247	Comments on the Administration's Proposed Synthetic Pools Correser- eleitration Program (Report)
eray Agency in Safaguerding Nucleur Material (Tastanopy) U.S. International Nucleur Safagueris	242	Role of the International Atomic En- ergy Agoncy in Safeguarding Nuclear Material (Report)	200	Shail Oil Co. Requests to Regulatory Agencies by Oil
Rights' Am They Being Effectively Exercised? (Unelswifted Digest) (Re- port)	243	The Safegments and Society of the Ba- orgy Research and Development Ad- ministration's Rocky Platt Photocium		Companies for Devisions from Staniant Procedures (Report)
		Facility (Report)	060	
Sofety Standards Annual Report of the Scenary of Tran- sportation on the Administration of		Society Systems at Contractial Nu- class Powerplants (Report)	639	Shipping Protocting Spocial Nuclear Material in Trensit: Improvements Mode and Ex- inting Problems (Report)
the Natival Gas Pipeline Safety Act of 1568	277	Socurity Moasures Protecting Special Nuclear Material in Transic Improvements Made and Ea-		Shippingport Atomic Power Station
Sales Contracts Amount of Natural Oas that Could Be Released from Poders! Price Resula-		ating Problems (Report)	(05	Operating Cost and Environmental Radiation Monitoring at the Ship- pingport Atomic Power Station (Re-
tions upon Expiration of Contracts from 1975 through 1985 (Teathnory)	137	Security Systems Shortoemings in the Systems Used to Control and Protent Highly Datger-		pert
Reliable Contract Siles Data Needed for Projecting Amounts of Natural Gen This Could Be Deregulated (Re- movit)	172	oza Nacicar Material (Report)	045	Ships The Navy's Practice of Discharging Fuel at Sen (Report)
peerly Violation of Ceiling Prices in a Defense	172	Sediments		
Puel Supply Center Sale (Report)	128	Problems Caused by Coal Mining Near Polenal Reservoir Projects (Te- tinong)	C74	Shorioges Natural Gas Shoriage. The Role of Im- ported Liquefied Natural Das (Reserv)
Suline Waters Plume Model	242			,
Chance South	161	Selective Dissemination of Information		
San Francisco Bay Area Socio-Rozornic Environmental Dano- graphic Information System (SRE-		National Program for Solar Heating and Cooling	308	Simulation Cospied Reegy System - Economic Models
proprie internation system (Sill-	434	Sequeyah Nadane Flant Sasawah Nadane Flant (Daff study)	943	Crude DI and Natural Gas Production Model Crude Dil Pricing Model (DCROPS)
Soudi Arabia				
Issues Related to Forcign Sources of Oil for the United States (Report)	235	Service Charges Comments on Proposed Legislation to Charge Basis for Ooverwarent Charge		Dytamic Input-Output Linus Pro- gramming Model for Regional En- cigy Impact Analysis (DIOLP) Electrical Farancial Porcesting Model
SavEnergy Citations Department of Commerces's "SavEn- ergy Citations" (Report)	024	for Uranium Esciebasent Services (Report)	191	(23E Model, EUFINANCE) Electro Power Fuel and Environmental Ataliant
Schedules		Service Stations President Market Shares	284	PEA Crude/Transportation Model PEA Household Energy Expenditure Model (HEEM)
Past Plux Test Paolisty Program (Sing) study) Problem Areas which Could Affect the	045	Set-Aside Program		Fiscel Impact of Energy Price Changes on State and Local Ooverrment Pur-
Development Schedule for the Clinch River Breeder Reactor (Stoff midy) Sequoyah Nuclear Place (Stoff midy)	040	The Administration of the Petroleum Sol-Aside Frogram by State Reergy Offices (Report)	122	chases of Goods and Services Income Distribution Impact Model International Coal Speak Model
		Problems in the Federal Energy Office's Implementation of Emergency Po- trakern Alocador Programs at Re-		International Energy Evaluation Sys- tern (IEES)
Scheduling Cost and Schotale Estimates for the Nation's First Liquid Metal Past Esteder Sottler Demenistration Past-		gional and State Levels (Report)	106	International Oil Supply Model National Cost Model (RMAC) Natural Gas Dustribution Model
erplant (Report)	667	Severance Texas Severance Tax Model	396	Natural Gas Shortage Model Neoclassical Regional Growth and En- ergy Price Model
Sea The Nevy's Practice of Discharging		Shale Qila		OECD Energy Demand Model
Paol at Sea (Report)	920	Oll Shele/Bentonite Tiple Clearance	339	Dil and Gas Supply Model Flume Model Project Independence Evaluation \$25-
Sensonal Pactors The Bosternia and Environmental Im- tect of Natural Gas Custalizents dur-		Shales Capability of the Naval Petroleum and Oil Shale Reserves to Meet Emer-		tem (PIES) Regional Econometric Denard Model and Auto Simulation Model (RD4)
ing the Winter of 1975-76 (Report)	682	gency Oil Needs (Report)	072	ana cana aminghishi wagti (KD4)

Reponal Industrial Multiplier System (RIMS)	392
Reserves Allocation and Ming Cost Model (RAMC)	390
Severance Tax Model	394
Short Term Petroleum Domand Fore-	
centrag Model	383
Site Destribution Model	35

#### Site Selection

Development (Tearmany)							
Accelerated	Oner	Continental	Shalf				

23.6

----

200

308

147

264

002

154

151

1.52

- Development (Testingar) Development of the Outer Continental
- Shelf Possil Fool Resources /Ter-(311313)
- Nuclear Regulatory Commission's Program for Evaluating Environmental innerts of Construction and Oriera tion of Nuclear Powerclasts (Report) Outer Continental Shift Sale #35
- Problems Selectors and Evaluating Land to Lease (Report)

#### Small Business

- Effects of a Change in Size Standard for Small Domens Petroleum Reficers (Sepont) The Effasts of Oil Priss Increases on Small Business Contracts (Report)
- Secret Conservation Financies (7m Abrested

#### Sectorconomic Indicators

Socia-Economic Environmental Demo mobic Information System (SEE 31101 DIS)

#### Seler Ceoline

- Federal and State Solar Energy Research, Davelopment, and Gemonstration Activities (Report) National Program for Solar Heating and
- Coaling National Solar Heating and Cooking In-
- formation Center
- Report on Solar Energy Demonstra-
- Roview of Selected Federal and Private Solar Energy Activitios (Report) Special Report on Solar Heating and
- Cooling Demonstration Program

#### Seler Frame

Activities of Solar Energy Coordination	
and Management Project	

- Alternative Paels far Aviation (H R 12113) (Testessel
- An Evaluation of Proposed Federal As sistance for Pinaneine Commerciali zation of Emerging Hourgy Technologan (Report)
- An Evaluation of Proposed Federal Assistance for Financing Commercialiantion of Emerging BROTRY Technologies (Teamory)
- Pederal and State Solar Encosy Research, Development, and Demory stration Activities (Resort? Energy Digest SEPTEMBER 1977

AEC Chairmon's Report, "The Na- tion's Energy Financ" (Report)
Managament and Paoding Aspects of Three Nerstuctur Beorgy Research, Development, and Demonstration Subprograms (Report)
National Program for Solar Heating and Coclarg
Opportunities to Improve Planning for Solar Energy Research and Develop- ment (Report)
Review of Selected Federal and Private Solar Eastery Activities (Report)
Solar Emergy Update
Soler Heating Federal and State Solar Energy Re- scareb, Development, and Ocmon- stration Astronomy Security
National Program for Solar Heating and Cooling
National Solar Heating and Cooling In- formation Canter
Report on Solar Energy Demonstru- tion
Review of Scienced Federal and Private Solar Energy Activities (Report)
Special Report on Solar Heatreg and Cooling Demonstration Program
Solid Minerals Royalty Accounting System Study of Solid Mineral Leasing Activities
Solid Wasts Opportunkles for More Effective Use of Anonal Manuna (Report)

How Solar Energy Was Treated in the

### Resource Recovery and Source Reductice

#### Solid Waste Management

- Review of the Progress and Problems of Resource Recovery Since the Passage of the Resource Resovery Act of 1970 (Teshnong) Using Selid Waste to Conserve Re-
- sorvers and to Create Fearty (Report)

#### South Carolina

The Baseonic and Basiceonectal Impact of Nataral Gas Curtailmans during the Winter of 1975-76 (Report)

#### Southagstare Federal Power Program

Southeastern Federal Power Program--Financial Management and Program Operations (Report)

#### Soviet Union

Submission of ILSS 3. Roerzy-Related Transactions for Congressional Re-

# Specificatio

a	Reports of the Review Committee on Safety of Outer Continental Shelf Pe-			
	troleum Operations to the Unsted States Geologiasi Survey	25		

# -

....

201

45

100

24.

278

Standords	
Effects of a Change in Size Standard for Small Business Petroleum Refiners (Report)	14
Energy Efficiency Ratios of Window Air-Conditioners (Report)	00
Onshore Lease Management Program Study for the U.S. Geological Survey	
Reports of the Review Committee on Safety of Owner Continental Shell Pe-	250
toolears Operations to the United States Geological Survey	25
Review of Average Fael Economy Standards under Title V of Motor	
Vehicle Information and Cost Savangs Act	278
State Agancies	
The Administration of the Petroleum Set-Askle Program by State Energy Offices (Report)	125
Sints and Energy Resources Operation of Sints Energy Conserva-	
tion Plans	293
State Energy Conservation Plan Operation of State Energy Conserva- tion Plans	295
State Finance	
Pedesal and State Solar Energy Ro- search, Development, and Demon- stration Astronomy Separat	200
State Local Relations	
Financing Infrastructure in Energy Development Areas of the Western States (Speech)	081
State Programs	
The Administration of the Petroleum Set-Aside Program by State Energy Offices (Report)	123
States Fixed Impact of Energy Price Changes	
on State and Local Government Per- chases of Gauch and Services	395
Statistical Data Information on Cectars Oil and Gas In-	
dastry Oversight Responsibilities (Re- port)	105
Statistical Data on Patroleum and Pe- troleum Products (Report)	075

#### Storage

Storage Equity of Advertisition Atlants in Printing and Storage One Carpens (1999) Lossequences of the Storage System Strategic Patholaum Rastrovo Bittes Neodrag Atterator in Development in the Storage Fundamin Reserve (Report) Strategic Petroleum Restri Pasa	104 371 090 289	Surnty and Fidelby Practal Report on the Geothermal Resource Devisionmer Taxt Surface Mining Adamsmether of Regulatoret for Ser- manne of Regulatoret for Ser- manne of Dates and Johns Crel Lassis (Depart) Department of Laboratory Views of Comment on Adamsmittigat Marray, and Restauration of Patha	339 093
		and Indian Coal Lands (Report)	095
Strip Mining Opportunities for Improvements in Re- charging Strip-Mined Lands under Coal Parchase Contracts (Appen) Supervising and Land Reclaration In-	092	Surveys PEA Household Energy Survey	) JP4
formerica, System	435	Synthetic Puola Alternative Fash for Avazona (H.R. 12112) (Teansaugi)	154
Structures Reports of the Review Committee on		Composits on the Admittation's Proposed Synthesis Facts Commer- culture Program (Report)	140
Safety of Outer Contractual Shell Pe- uniquer Operations to the Usered		Developing and Commercializing En- orgy Technology (Technolog)	142
Sastan Goological Survey	251	Developing and Conservenitiong En- ergy Technology (Teatmonp)	145
Submotion Oil Well Dolling Resonal Baylormon and Development of Oute Consessed Shell Resources (Peasempt	230	An Evaluation of Proposed Protein As- suinger for Physicage Centercali- anico of Energing Energy Technologies (Argon) An Evaluation of Proposed Folgest As- sottone for Financing Continenceali- nation of Energy Technologies (Parasony)	151
Subroargani Londs Razona Rutorston and Development of Court Costinental Shell Resources (Teationity)	250	Francess for Connectial-sized Descentizations of Energy Technolo- gies ( <i>Technology</i> Fased Energy Program Roport Natural Gas Industry Evaluation Sys- tems	141 311 412
Substities Developing and Commension En- orgy Technology (Teamany) Developing and Commensionary Br- egy Technology (Teamany) Stiteted Appent of Nodern Fore- plent Reliability and Economies (Re- port)	142 146 050	Status and Distigates to Connectionaliza- tion of Coal Legatherion and Galifi- estion (Report) Systems Analysis Reports of the Review Contesting on Safety of Outer Connectal Solid Pe- trolicem Operation to the United Status Obsequed Barry	085
Substotion Centrol Supervisery Costrol and Data Acquis- tion System (SCADA)	238	Tenckars The Nevy's Practice of Discharging Fuel at Ses (Report)	020
Sun Oli Co. Requires to Regulatory Agentuce by Dd Companies for Octidators from Standard Procedures (Rotter)	148	ToriHs Funds Crafued to the Account of the Vices Islands for Refunds from Im- port Learnie Rees (Report)	124
Supply Systems Bulk Faols Need To 96 Retter Managed (Report)	014	Tox Administration The Federal Income Taxes of Class A and B Electric Usilines (Report)	185
164			

	Toxostion The Federal Income Taxos of Class A	
339	and 8 Bleetne Unifiles (Report)	185
	Tox Audits The Federal Income Taxes of Class A and 8 Biogene Utahina (Report)	185
093	Tox Cradits Analysis of the Energy, Economic, and Budgetary Imparts of M.R. 6860	
095	(Saff slady) Energy Conservation (Textmony) Energy Conservation Financing (Tex- nerary)	129 015 027
394	Tax Lows The Federal Income Taxes of Class A and 9 Electric Unlinities (Report)	185
154	Teopot Doms (WY) Management of and Plans for the Naval Pottoleum Reserves (Report)	207
140	renation generics (acputy	
142	Technical Assistance Development of Interactory Relation-	
145	align in the Regulation of Nicelear Materials and Pacifities (Report)	055
151	Tachnologicel Innovations Alternative Faels for Aviation (H.R. 12112) (Tenchany)	154
152	Budgeting of Pederal Financial Incon- tives for Energy Development (Ten- anany)	150
141	Developing and Commercializing En- ergy Technology (Terrivisity)	142
a11	Orveloping and Commercializing Ea- ergy Technology (Testimony) An Evaluation of Proposed Federal As-	146
412	antenco for Financing Commerciali- ration of Emerging Energy Technologies (Report)	151
	An Evaluation of Proposed Poderal As- sistance for Financing Congruencial- zation of Emorging Energy	
	Technologies (Tenihrony) On Conservation and Incovation (Speeck)	152 029
251		
	Technology Developing and Commercivitizing En- ergy Technology (Testimony) Improvements Neoderl in the Federal	142
020	Enhanced Oil and Gas Recovery Re- search, Development, and Demon- stration Program (Report)	155

#### Technology Transfer

Can the U.S. Breeder Reaster Develop-	
ment Program Be Accelerated by Us- ing Foreign Technology? (Report)	245
International Cooperation is Energy Released and Development (Ter-	
Alwangd	245
Technicel Information Center (TTC)	439

ferliary Oil Recovery		Tidal Pe Solar
Alterniture Fiels for Aviation (H R. 12112) (Teatroony)	154	Solar
An Evaluation of Proposed Federal An- sistance for Prosseng Commercial- ration of Emerging Energy Technologies (Teaswang)	152	Timellos Cast Na Iteo ergi
Test Facilities Fast Fast Test Facility Program (Sigff study) Plans for Construction of a Magnetohy-	041	Trode Pendr Vicy
deodynamies Test Facility is Mon- tane (Report)	085	por
This Country's Mait Expressive Light Water Reactor Safsty Test Pacifity (Report)	099	Trade A Issue for
Yessing Oil Recovery An Evaluation of Proposed Federal As- sistance (or Proposed Federal As- ration of Emerging Energy Technologies (Report)	151	Tealning Marp Ind
Texeco Requests to Regulatory Agences by Oil Cempesies for Ormators from		Tours-A Sorve De kar
Standard Precedures (Report)	148	Tranami Statu
Shortozerstak in dar Systems Used to Contool and Protect Highly Danger- ans Nuclear Material (Report)	0é2	an Ba Tri
Thermal Pollution Ecological Sciences Information Center (ESIC)	445	Trenspe Alter Alter Alter Log
Thermal Powerplonts Astivities of Etch Gesthermal Darron- stratice Project Activities of the Geethermal Coordina-	367	lac An Encr Encr
tion and Management Project A Computer Code for Conceptual Cost Estimates of Steam Meetric Power	306	Ener Ci Fode
Plants (Cornept) Electric Power Fael and Environmental Analyses	431 405	M. p0
Operating Cost and Environmental Reclasion Monitoring at the Ship- pingport Atomic Power Station (Re-	042	Proti Th Jac
pert) Thermonucleur Energy		Treasp Pric
Controlled Fusion Atentic Onto Con- tor	***	N
Thermanuclear Research Management of the Atomic Energy Commission's Controlled Thermonia- clear Research Program (Report)	195	Transp Criti
Thorium Energy Resource Cats Systems		ne Ne
Energy Digest SEPTEMBER 1977	321	740

Tidal Power Solar Energy Update	437	1
Timeliness Clast and Schefulz: Zaussess for the Network First Legad Metal Pat Breader Restor Descontention Pow- erplant (Report)	647	,
Trede Funds Credited to the Account of the Viego blands for Refunds from Im- port Licoust Fore (Report)	124	,
Trade Agreements Issues Related to Foreign Sectors of Oal for the United States (Report)	235	,
Training Manpower Needs of the Niedear Power Industry (Report)	-	
Tonna-Alaska Pipeline System Servey of Publicitions on Exploration, Development and Delwary of Alas- Jan Oll Market (Report)	129	
Trensmission 2005 Subas of Foderal and Pelvalo Research and Development Efficients Conserve Series by Reflecting Electric Power Trenensission Lester (2017) 2016	685	
Trensportation Alternative Energy Property (Ter- terony) Alternative Energy Propends Orve- loped by the General Accounting Of-	165	
fice in Response to Congressional Inquiries: Proposals and Supporting Analyses (Terminan) Energy Conservation (Technoly)	166 015	
Energy Conservation Fernancing (Ter- timany)	027	
Energy, the Economy and the Badget (Speech) Federal Efform to Conservit Field in the	169	
Movement of Men and Materials (Re- perf) Protecting Special Nuclear Material in	004	
Protecting Spocial Michael Hadenail in Transit: Improvements Made and Ex- lating Problems (Report)	695	
Tenasportation Contracts Procedures for Breinging Reasonable- ress of Petrobum Pipelon Rates Neod Importing (Report)	894	
Transportation of Hozandous Substances Criticality Data Croker	445	
Transportation Rotus Procedures for Evaluating Reasonable- ness of Petroleum Pipeline Rates Need Improving (Superd)	694	

Transportation Sofiety An Undesselled Orgest of a Classified Report Bandied "Stafey and Tran- sportage Safegaards at Rocky Flass Nuclear Weapons Pleas" (Report)	667
Trensvorenites Ecological Segments Information Center (ERIC) Neosda Apphed Ecology Information Conter	445 452
Tractics Role of the International Atomic En- ergy Agency in Softguerding Nuclear Material (Report)	240
Treaty on the Non-Proliferation of Nuclear Weapons Auctionens of Unred States and Inter- national Controls over the Resolu- Uses of Nuclear Energy (Report)	247
Trition Environmental Information Analysis Center (EIAC)	448
Tracks The Parchase of Short-Stepply, Energy- Related licens through the Experi- import Bank of the United States (Aspent)	236
Ultitle Boel's (UT) Progress and Problems in Developing, Nucleist and Other Esperimental Technogoes for Recovering Natural Gas in the Rocky Mountain Arts (Re- port)	677
Underground Storage Issues Needing Attention in Develop- ing the Strategic Potsoleum Reserve (Report)	090
Unexployment The Bonomic and Reconcercial Im- pact of Natural Gas Contrainees During the Winter of 1975-76 (Te- among)	083
Unless of Soviet Socialist Republics Chen the U.S. Breacht Resetor Dovdap- ment Program Da Acceleration by Us- ing Foreign Technology? (Repent) Interrotional Cooperation in Energy Research and Development (Tau- strong)	245 245
United Kingdom On the U.S. Breeder Resette Develop- ment Program Br Accelerated by Us- ing Foreign Technology! (Aport) Intermitional Coopersion. In Borgy	245
Research and Development (Te-	245

#### Uranium

Certain Actions That Can Be Taken to Help Improve This Nation's Uraniam Picture (Report)

Dometics: Energy Resource and Reserve Estimates-User, Lamataborn, and Needed Data (Report)

Energy Research and Development Administration's Contingency Plan for More Enrichment Capacity at Porsmouth, OH (Report) Energy Resource Data Systems

- The Evaluation of the Administration's Proposal for Government Assistance to Private Unsugar Earlchment Groups (Texastop)
- The Liquid Metal First Breeder Reactors Promises and Uncertainities (Skiff and)?
- Neveda Applied Ecology Information Center
- Proposed Distribution of Special Nuclear Materials
- Selected Aspects of Nuclear Powerplant Relability and Economics (Repart)
- Shortcomings in the Systems Used to Control and Protect Highly Dangtrnus Nuclear Material (Report)
- An Unclassified Digent of a Classified Report Entitled "Safety and Transportation Safeguards at Recky Flata Nuclear Weapons Plant" (Roperd
- U.S. Unintere Resources and Supply

#### Uranium Enrichment

vices to	Fpol	Foreign	and	Domestic
Nuclear	Reac	2015 (Re	(nora)	

- Bistgenug of Fadoral Familian Incontives for Energy Development (Teaiteasy)
- Composits as Perposed Lagislation to Change Basis for Government Change for Leavent Envicion Services (Report)
- Connects on Scienced Aspects of the Administration's Proposal for Govcrament Associated to Private Unanous Enrichistent Orcups (Report)
- Efforts to Develop Two Nuclear Cencepts. That Could Gently Improve This Country's Popers Energy Sigation (Record)
- Energy Efficiency of Nuclear and Conventional Field Used to Produce Electrony (Report)
- Energy Research and Development Administration's Consequency Plan for More Enrichment Capacity at Portsmouth, OH (Zeport)
- The Evaluation of the Administration's Propasal for Government Assistance to Pelvate Unasium. Entichment Groups (Tratiange)
- Evaluation of the Administration's Proposal for Government Assistance to Private Unition Enrichment Groups (Report)
- Future Structure of the Unanium Enrichment Industry (Tealmony)
- International Cooperation in Energy Research and Development (Teramong)
- 166

- Proposed Revisions to the Criteria and Contracts for Uninium Enrichment Services (Repert)
- Scienced Aspects of Nuclear Powerplant Reliability and Economics (Repert)

050

017

egn

190

#### Ute (52 [/] 328

- Agreeness between the Secretary of the Internet and Officials of the State of Units Persisting to Osl State Leases (Lease) Progress and Problems in Developing Nuclear and Other Experimental
- Techniques for Resovering Natural Gasin the Rocky Mountain Arts (Repert)

# 303 Elect

0.53

050

238

100

121

145

035

134

007

246

Electric Rate Demonstration Data Sys-	
tem	340
Electric Regulatory Activities	405
Energy Casservation Practness En- counaged by States (Report)	000
Power Surveys and Systems Evalua- tion	405
Program and Problems of the Gavera- ment's Unity Carservation Program (Report)	621
Propused Power Rate Increase of the Bureau of Rochamation's Central Val-	
tey Prepart (Testawarg)	101

#### Utilities Cests

Compact eral Of	os of Es los Built		Fed-
National dential	Stander Ezergy (		

#### Utilities Monopement

Hew Federal Agencies Can Cooperve
Utilities and Reduce their Cast (Re-
(Integ
Progress and Problems of the Govern-
ment's Utility Construction Program
(Report)

#### C48 Veldez (AK)

Survey of Publications on Exploration, Development and Delivery of Alaskan Ol Market (Ropin)

#### Vehicle Fuels

Interesentents Needed in Controls and	
Acetaesing for Ground Vehicle Po-	
teolesen (Report)	018

#### Vehicles

Potential for Using Electric	ic VehickS on
Federal Installations 6	teport) 022

#### Venezu

Issues Related to Foreign Sources of Oul	
for the United States (Report)	235

#### Subject Index

Virgisia	
The Boostone and Environmental In- port of Natural Gas Cartalineets dur- ing the Winter of 1975-76 (Report)	082
Voluniery Progress Industrial Energy Efficiency Progress	196
Review of Voluntary Agronment and Pion of Action To Intelement the In- ternational Energy Program	276
Woges Information on Selected Aspects of the Power Operations of Tentance Val- icy Authority (Report)	167
Wolvers Requests to Regulatory Agencies by Oil Comparies for Deviators from Standard Procedures (Report)	148
Words Comburdion Alternative Pack for Avation (H.R. 12112) (Teamony) An Draination of Proposed Paderal As- sistemes for Pattering Commercial-	154
zation of Emerging Energy Technologies (Report) An Evaluation of Proposed Paderal As- sistence for Pantacink Commerculi-	154
zation of Emerging Energy Technologues (Partivery) Using Solid Waste to Conserve Re-	152
sources and to Crease Energy (Report)	013
Weste Disposel Using Solid Waste to Conserve Re- scorres and to Create Energy (Report)	013
Woste Management issues Related to the Closing of the	
Nuclear Fact Services, Inc., Reprot- easing Hint at West Valley, New York (Transay)	071
Opportantics for More Effective Use of Animal Mantre (Report)	035
Selected Aspects of Nuclear Power- plant Reliability and Economics (Re- port)	650
Waste Products Issues Related to the Closing of the Na- clear Firel Services, Incorporated, Re- processing Plant at Wolt Valley, New York (Repart)	670
Oppartuellies for More Effective Use of Animal Manure (Report)	025
Policies and Programs Being Developed	

To Expand Procurement of Products

Contaming Recycled Materials (Re-

Resource Recovery and Source Rodak-

Review of the Progress and Problems of

Resource Recovery Since the Passage

of the Resource Recovery Act of 1970

Energy Digest SEPTEMBER 1977

(Testimone)

Using Solid Waste to Conserve lie	
sources and to Croste Issergy (Report)	
	013

#### .....

Annual Report on the Columbus River Power System	275
Consolidated Fitancial Statement of the Federal Columbia Rover Power System	274
National Water Data Eachange (NAW-	
DEX)	325
Water Pollution	
Plame Model	362
Beaklasst Cronted by Coal Mining Name	

	Reservoir Pn			075
Technical (TADS)	Assistance	Data	System	340

# Water Polletion Control

Analyses	405
Receivery of Expenses from Cleanup and Investigation of Oil Spills (Letter)	
	107
Spill Prevention Control and Counter- measure System (SPCCS)	342

# Water Power

Could Be Increased by Modernizma	
Turbings and Generators (Report)	205
Reports of Costs of Certain Structures	
on Nongoverement Waters	278

#### Weapons

struction Projects	Experiencing Sig-

Wells	
Information on Certain Oil and Gas In-	
dustry Oversight Responsibilities (Re-	
part)	105

West Virginio Problems Caused by Coal Maning Near	
Federal Reservoir Projects (Report)	075

#### Wind Energy

Soler Ene	rgy Updata	437

#### Wind Power

Ind Power The Federal Wind Energy Program (Re-206 port)

Wyoming	
Progress and Problems in Developing	
Nuclear and Other Experimental	
Techniques for Repovering Natural	
Close in the Residu Mountain Area (Re-	
Gas in the Rocky Mountain Area (Re-	07

# AGENCY/ORGANIZATION INDEX

Includes both Federal agencies and nongovernmental corporate bodies with which the document is concerned, in one alphabetic sequence.

Agency/Org	panization Sample entry:		
Te			Type of Publication
	the Liquid Metal Fast Breeder Reac- tor (Report)	066	Accession Number

Agency	r faz i	Internat	angl

Agency for international	
Development	
11.5 Financial Association in the Deve-	
locuton of Foreign Nuclear Energy	
Programs (Report)	239
the second second	200
Aleska Power Administration	
Planning and Billing System	339
Alveske Pipeline Service Co.	
Information on the Proposed Alaska	
Oil Pipeline (Report)	074
Survey of Publications on Exploration,	
Development and Delivery of Alag-	
kan Oil Market (Report)	102
Trans-Alasks Oil PresinePreason of	
Construction through Nonember	
1975 (Report)	084
1775 (Hapland	
Arkonses	
Arkonsas Office of Petrolaum Allocation	
Office of Petrolaum Allocation	
Office of Petrolaum Allocation The Administration of the Petroleum	122
Office of Petrolaum Allocation The Administration of the Petroleum Sct-Aside Program by Siste Energy	122
Office of Petroliver Allocation The Administration of the Petroleum Set-Adde Program by Sone Bongy Offices (Report) Arms Coultrel and Diserreament	122
Offlie of Pateline Alisonian The Administration of the Petroleum Set-Aulte Program by Sale Boargy Offlies (Report) Arms Coaltel and Disermanent Agency	122
Office of Peterlayar Allocation The Administration of the Peterlaum Sct-Adde Program by Sase Boargy Offices (Report) Arms Control and Discrementer Agency Assessment of Usined States and Inter-	122
Offlie of Pateline Alisonian The Administration of the Petroleum Set-Aulte Program by Sale Boargy Offlies (Report) Arms Coaltel and Disermanent Agency	122
Office of Peterlayar Allocation The Administration of the Peterlaum Sct-Adde Program by Sase Boargy Offices (Report) Arms Control and Discrementer Agency Assessment of Usined States and Inter-	122 247
Office of Peterline Allocation The Administention of the Petroleum Sci-Aside Program by Sole Boargy Offices (Report) Atens Control on Diferencement Agency Assessment of Usined States and Inter- national Coarticle serve the Peaceful	-
Office of Patientian Alisontian The Aufinitumistics of the Perricham Schwäler Pergamis by Sasse Tanago Offices (Report) Areas Confection and Distancement Areas Confection and Distancement Antional Coarticle area the Pencific Unces of Neutres Taterage (Report) Atlantic Richtfeld Co.	-
Colline of Peterlayer Allocation The Auforstructure of the Peterlayer Colline of Peterlayer Offices (Report American and Discrementaria Assessment of Ultrand States and Inter- national Countral arest the Ponetial Una of Nuclein Energy (Report Marsine RivInted Co. Survey of Marsine and Endouting, Survey of Marsine and Endouting,	-
Office of Patientian Alisontian The Aufinitumistics of the Perricham Schwäler Pergamis by Sasse Tanago Offices (Report) Areas Confection and Distancement Areas Confection and Distancement Antional Coarticle area the Pencific Unces of Neutres Taterage (Report) Atlantic Richtfeld Co.	-

# Atomic Energy Commission

1.59
158

Contrasts on Rocky Miscosch and Development: Administration's Proposed Amagament for the Chirch River Brender Reactor Demosstration Hint Project (Re-	
port) Energy Data Collection in the Pederal Government (Textmany)	157
Energy Efficiency of Nuclear and Cro- ventional Facts Used to Produce Electronity (Report)	035
The Energy Information Act, S. 1864 (Testimate)	176
Fint Plus Test Pacifity Program (Sieff mudp)	041
Further Comments on Atomic Energy Commission's Proposed Amange- ment for the Logad Metal Past Breeder Rotector Demonstration Project (Report)	823
How Salar Energy Was Treated in the AEC Chairman's Report, "The Na- tion's Energy Putme" (Report)	198
How the Federal Government Parto- pases in Activities Affecting the En- ergy Resources of the United States (Report)	098
Internetiens Needed in the Program for the Protection of Spooral Nacion Material (Report)	634
Improvements Still Norded in Federal Energy Data Collection, Analysis, and Reporting (Seport)	182
The Liquid Metal Fast Brooder Rese- tor Program-Past, Propost, and Pa- ture (Report)	045
Liquid Metal Past Inceder Reactor Program-Past, Present, and Patane (Tealmarg)	046
Tao Liquid Metaj Fast Breeder Rese- to: Promises and Uncertambles (Staff started)	049
Management of the Atomic Energy Commission's Controlled Ther- menueleur Research Program (Re-	
port)	195
Manpower Noods of the Noclear Power ladentry (Aspend)	638

Problem Areas which Conid Affect the Development Schedule for the

Clinch Rover Brandov Renotee (Sing) study/	040
Problems in Identifying, Developing, and Using Goothermal Resources (Report)	192
Progress and Problems in Developing Nuclear and Other Experimental Techniques for Recovering Natural Gas in the Rocky Meastain Asen (Report)	077
Proposed Changes to the Atamic En- ergy Commission's Arrangement for Currying Out the Liquid Metal Part Breacher Reactor Demonstration Propost (Report)	002
Proposed Revisions to the Critons and Contracts for Usewness Exclusion Services (Report)	097
Protecting Special Nuclear Material in Trendit: Improvements Made and Existing Problems (Report)	005
The Reactor Inspection Program of the Atomic Samry Commission (Re- port)	033
Security Systems at Contrortelal Nu- class Powerplants (Report)	039
Survey of Federal and Electric Utility Procurements of Power Equipment (Report)	162
Survey of Federal Programs and Poli- cies for Dispesary of Ossolete and Unusof Nuclear Facilities (Report)	057
This Contery's Most Expensive Light Water Reactor Safety Test Facility (Report)	039
U.S. Prancial Ampiance in the Deve- lopment of Foreign Nucleus Energy Programs (Report)	239
Bonneville Power Administration Annual Report on the Colombia River	

Power System	275
Consolidated Figureis Statement of the Federal Columbia River Power	
System	274
Federal Hydrocicetric Plants Can In-	
ortast Power Sales (Report)	201
Pacific Northwest Hydro-Thermal Power ProgramA Regional Ap-	

#### Bonneville Power Administration

proach to Meeting Electric Power	161
Requirements (Report) Place Operation and Power Schedoling	
Power Parter Restarements Immosed	335
by Federal Power-Marketing Agen- nes on their Customers (Leiter)	204
Power Flaw Program	335
Real Time Operators, Dripatch and Scheduling (RODS)	337
Status of the Grand Coulee-Raver Transmission Line Project (Report)	184
Supervisory Created and Data Acquisi- aun System (SCADA)	338
Survey of Federal and Electric Unity Procurements of Power Equipment (Report)	142
Besten Ellison Co. Management Improvements Needed in the Poderal Power Contraining 'P Processing of Electric-Rate-Increase	
Cases (Report)	153
Breadar Reactor Corp.	
Cost and Schedule Estatates for the Netion's Plant Lignal Mattal Plant Breeder Reactor Demonstration Pawerplant (Report)	60
The Inergy Research and Develop- ment Administration's Proposed Contract with Project Management	
Corporation, Communwealth Edu- son, and the Transister Valley An- therny (Report)	956
Parther Comments on Atomic Energy Communication Proposed Arrange- ment for the Liquid Metal Post Breeder Renoter Domonstration Project (Report)	031
Proposed Changes to the Atomic En- ergy Constitution's Arrangement for Carrying Out the Liquid Metal Past	033
Breeder Reactor Demonstration Project (Report)	032
The Proposed Central for the Clinch River Breeder Reactor Project (Per- troom)	058
Burness of Engroving and Printing Alleged Wasse of Menoy in Printing Costs on Gas Ranzasing Coupons	
(Lever)	110
Bureou of Indian Affairs Administration of Regulatoos for Sur- face Exploration, Meang, and Rea- latation of Public and Jedian Coal	
Lands (Report) Department of the intenor's Wows of	093
Constructs on Administration of Regulations for Surface Exploration, Mixing, and Reflamation of Public and Indian Coal Lands (Report)	095
Indun Natural Resources-Part II: Cost, OB, and Gas-Better Manage- ment Cas Interese Development and Increase Interes and Intelloy-	
ment (Report)	225

dures for Approving Cosi Mining Plans (Report)	220
Department of the latener's Virws of Comments on Administration of Regulations for Surface Exploration,	
Musta, and Reclamation of Public	095
and Indoan Coal Lands (Report) Grants of Rights-of-Way for Pipelants	
through Federal Lands Information on Certain Oil and Gas In-	273
destry Oversight Responsibilities (Report)	105
Land Rate System	332
Losse Management System	333
Di Shale/Bentonite Title Clearance	335
Onter Continental Shelf Post-Sale Sys-	221
Publicans in Meaufring, Developing,	
and Using Geethermal Resources (Report)	199
Role of Pedanal Cost Resources in	
Meeting Energy Goals Needs to be Determined and the Leasing Process	
improved (Report)	225
veray of Minas	
A Bill to Establish a National Energy	
Information System (Textmong)	158
Commodity Data Specmaries and Mus- cral Estimates	266
Energy Data Collection in the Federal Government (Tatascond)	127
The Experiation of Coal (Argent)	244
Federal Holium Program	320
How the Foderal Government Partici-	340
pres in Activities Affecting the En-	
ergy Resources of the United States (Report)	360
Improvements Still Needed in Federal Energy Data Collection, Analysis,	
sed Reporting (Report) bolton Natural Responder-Part II:	182
Coal, Oil, and Gas-Better Manage- ment Can Imprave Development	
and increase income and Employ-	
ment (Report)	225
Information on Certain Oil and Gas In- dustry Dvarsubt Responsibilities	
(Bread)	105
Miteral Land Assessment	321
Mintrals Information System	
(MINFD)	3/22
Mitting and Minetals Policy Mining Research	267
Report to the Congress on Mattern	323
Contained in the Holisen Act	268
Research Information Management System (RIMS)	324
Access of the Federal Power Commis-	
sion to Buresu of Reglamation Re-	
cords to Izavee Campliance with the	
Pederal Power Act (Lester)	163

Buraou of Land Monogement Administration of Regulations for Sir-fece Exploration, Manag, and Reo-lamston of Public and Indian Casi

Compensatory Revelly Aartements

Department of the Intener's Proce-

Landa (Report)

Coal Lease Data System

R

California's Central Valley Project-	
<ul> <li>Propused Power Rate Increase (Re- port)</li> </ul>	156
Federal Hydroplectric Plants Can In- crease Power Sales (Report)	201
How the Federal Government Partiti- pates in Activities Affecting the En- crgy Resources of the United Status	
(Report) Library of Esecuted Electric Power	098
Contracts	334
Pasific Northwest Hydro-Thormal Power Program-A Regional Ap- proach to Meeting Electric Power Requirements (Report)	161
Problems Caused by Coal Mixing New Federal Reservoir Projects (774- tamony)	076
Proposed Power Rate Increase of the Bureau of Reclamation's Central Valley Project (Testimony)	101
Colifornie	
Energy Resources, Conservation, and Development Concelesion	
istees of Nucleur Fuel Reprocessing and Disposel of High Lovel Nuclear Waste Operch/	068
Coastal Stotas Gos Producing Co. Receipt and Coordination of Natural Gas Receive Data (Report)	678
Coost Guard How the Pederal Government Partici- pates in Activities Affecting the In- ergy Resources of the United States (Report)	698
Improved inspection and Regulation Could Relate the Possibility of Oli- spills on the Outer Continental Shelf (Report)	100
Commonwealth Edison Co. Commons on Energy Research and Development Antalaistration's Proposed Arrangement for the Clinich River Breeder Rescior Demonstration Plant Project (Re-	
peri) Cost and Schedule Estimates for the Nation's First Liquid Metal Past Breeder Reactor Demonstration Powerplant (Report)	044 047
The Borgy Research and Develop- meter Administration's Proposed Contract with Project Management Corporation, Commonwealth Edi- son, and the Tennessee Valley Au-	647
Purther Committee in Atomic Barry Purt Purther Committee Atomic Barry Committee Proposed Arrange- ment for the Liquid Meal Past Breeder Resetto Demonstration Project (Report)	036
Proposed (Report) Proposed Changes to the Atomic En- etyp Contension's Artangement for Carrying Dat the Logard Metal Past Breeder Resolve Demonstration Project (Resolv	602
The Proposed Contract for the Clinch River Breeder Resolar Propost (Tes-	
Smary	0.56

Consumer Oil Operations, Secremente, CA		The Effects of Oil Price Increas Small Businets Contracts (Re
Poderal Energy Administration's Ac-		Energy Conservation at Govern
tions on Allocation and Pricing of Foel (Repart)	116	Field Installations Progress Problems (Report)
		Energy Conservation Program a Government Constructors (Re
Cost of Living Council The Cott of Living Council's Actions		The Energy Impact of Moving D
to Assure That Cost Increases for		ment of Defense Activities fro
Petroleum Products Were Made m		Military Denn Terminal, Bros
According with Petroleum Priving		New York, to Bayonae, New
Regulations (Repart)	105	(Report)
Domostic Crufe Oil Pricing Policy and		Pollowup Review of the Nova
Related Production (Report)	112	troleum Raserves (Report)
		How Federal Agencies Can Co- Utilities and Reduce their Cor
Council on Environmental Quality		pari)
Department of the interior's Views of		Improvements Notifed in Control
Comments on Administration of Regulations for Surface Exploration,		Accounting for Cound Vehic
Miring, and Reclamation of Public		trolours (Report)
and Indian Coal Lands (Report)	095	Issues Needing Attention in Des
		ing the Strategic Patroleum Re (Separt)
Defanse Supply Agency		Policies and Programs Being I
Effoots of a Change in Size Standard		oped To Expand Procureme
for Smill Bauncas Petroloum Rolln- ors (Report)	149	
are Indero	1407	Materials (Report)
		Procedures for Evaluating Reason ness of Petroleurs Pipeline
Deportment of Agricolture		Need Improving (Report)
Pederal and State Solar Energy Re- search, Development, and Demon-		Processmont of Foreign and Dor
stration Activities (Report)	200	Petrologin by Department of
The Federal Wind Energy Program		(crise (Report)
(Report)	236	Progress and Problems of the Ge
Opportunities for More Effective Use		ment's Utility Cosservation
of Animal Monuce (Report)	025	ptim (Report)
		Defense Real Scools Contes
Department of Commarce		Beforse Fool Supply Center, Alexandria, VA
A Bill to Establish a National Energy		Alexanskie, VA Bulk Facia Need To Be E
A Bill to Establish a National Energy Information System (Tentwooy)	158	Alexanskie, VA Bulk Fach Need To Be E Managed (Repart)
A Bill to Establish a National Energy Information System (Tenthony) The Conital Zone Management Pro-	158	Alexenside, VA Bulk Fuch Need To Be E Managed (Report) Violation of Cellate Prices on a Da
A Bill to Establish a National Energy Information System (Tentwooy)		Alexanskie, VA Bulk Fach Need To Be E Managed (Repart)
A Bill to Entshish a National Energy Information System ( <i>Tentingany</i> ) The Countal Zone Managament Pro- gram: An Uncertain Future ( <i>Report</i> )	158 187	Alexandria, VA Bulk Fiels Need To Be E Managed (Report) Violation of Celling Prices in a Da Fuel Supply Center Sale (Repo
A Bill to Establish a National Energy Information System (Pachopsy) The Contail Zone Managareen Pro- gram: An Uncertain Fature (Report) Department of Commany's "Swilla-		Alexandria, VA Bulk Fiels Need To Be E Mirraged (Repart) Violation of Celling Prices in a Da Fiel Supply Center Sale (Rep Deportment of Housing and Link
A bill to Bashkin a National Berryy Information System (Tenthosy) The Cossil Zone Monagement Pro- gram: An Uncontain Pattere (Report) Department of Commance's "Savila- ergy Clattors" (Report) The Bonnessic Innear of Energy Ac-	187 024	Alexandrile, VA Bulk, Patch Need To Bo E Managed (Repart) Violation of Octing Prices in a De Peel Supply Center Sale. (Rep Deportment of Housing and Urb Devolopment
A bill to Eusylath a National Berry Information System (Printmospy) The Countil Zone Management Pro- gram: An Uncertaine Patience (Papert) Department of Commarce's "Savila- ergy Claincen" (Raped) The Econsenic Impact of Energy Ac- tions	187	Alexandria, VA Bulk, Path. Need To Bo E Managed (Repart) Visitation of Ceding Prices on a Da Peel Supply Center Sale (Rep Deportment of Housing and Urb Dryvolopment National Standerts Needed for
A bill to Eusylath a National Energy Information System (Thomsony) The Constal Zone Monagareou Pro- gram: An Uncerturn Parine (Report) Department of Commercies "swills- ergy Catatoni" (Report) The Econstein Impact of Energy Ac- tions Energy Data Collecton in the Poderal	187 024 255	Alexandrile, VA Bulk, Patch Need To Bo E Managed (Repart) Violation of Octing Prices in a De Peel Supply Center Sale. (Rep Deportment of Housing and Urb Devolopment
A bill to Eusylath a National Berry Information System (Primsway) The Countil Zone Manaparesen Pro- gramm An Uncontain Patiene (Report) Department of Commune's "Savila- ergy Chainent" (Report) The Econemic Impact of Energy Ac- tions Energy Data Collecton is the Foderal Government (Patweege)	187 024	Alexandria, VA Bulk Piela Need To Bo E Maraged (Report) Visitision Ciching Prices in a Da Piel Supply Corone Sale (Repo Day observations) Day observations Notional Standords Needed for dontal Beergy Conservation port) Report on Saler Beary Demor
A Bit to Envishe a National Bergy Information System (Thinkwey) Information System (Thinkwey) germ: An Uncertains Fatures (Repert) Department of Commarche Should ergy Clattion ¹⁰ (Repert) The Boornie Impact of Eastry Ac- tional Enorgy Data Collection in the Settert Government (Thinkwey) The Entry Internation (A, S. 1064)	187 024 255 137	Alexandria, VA bill, Fleid, Ned To Ee E Mirraged <i>Report</i> ) Varities (Callag Prices as a Dar Petel Scopy Comer Site (Rep Petel Scopy Comer Site (Rep Deportment) of Housing and Urb Devolopment Network (Network) (Network) Network (Network) (Network) Network (Network) (Network) (Network) (Network) Network (Network) (Network) (Network) Network (Network) (Network) (Network) Network (Network) (Network) (Network) (Network) Network (Network) (Net
A Bit to Envished a National Bergy Information System (Tabubasy) The Cassial Zone Menagateen Pro- grams. In Autorature Future (Raperd) Department of Commande's "Savilia- ergy Catalone" (Raperd) The Savilia Contension in the Forten Government (Francesor) The Energy Information Act, S. 1864 (Tensword)	187 024 255	Alexandria, VA Bill, Fleh, Ned To Be E Maraged (Rejord Visitisies of Collap Priors as a Da Fiel Supply Center Sile (Rejo Davelepness) Netional Statefers Netode for dottal Berry Cesservation part Report on Sofer Berry Denne tion
A Bill to Envished a National Berey Information System (Tabubasy) The Countil Zone Menagement Pro- grom An Monetan Plane (Report) Department of Coronarce's "Swilla- ery Cattorian" (Report) The Economic Impact of Energy A- tiona Energy Data Officeton in the Forders Construction (Information) Construction (Information)	187 024 255 137	Alexander, VA bill, Field Ned To Er E Mittaget <i>(Report)</i> Valution (Cital) privata as Da Peti Stoppy Cross Site (Rep Dayosigneet Netional Statistics) Neoded for approximation (Statistics) Neoded for applications (Statistics) Neoded for applications) Statistics) Neoded for applications (Statistics) Neoded for applications) Neoded for applications (Statistics) Neoded for applications) Neoded for Applications (Neoded For Applications) Neoded For Applications) Neoded For Applications (Neoded For Applications) Neoded Fo
A Bill to Embeds a National Bergy Information System (Thiotoxic) grims A Duckins Prince (Report grims A Duckins Prince (Report) Departments of Commercies "Swella- ery Catatories" (Report) The Escapation Conference in the Scient Gooverners (Transverg) The Escapation (Francesco) The Escapatio	187 024 255 137	Alexandria, VA hill, Padel Need Visition of Cocing Prices as a Da Pali Sophy Croser Sale (Kep Daportment of Housing and Urb Davelopmen Netional Stateferth Needed for dontal Energy Conservation period Report on Solar Beargy Denter Special Report on Saler Issay Denter
A Bill to Envished a National Berey Information System (Tabubasy) The Countil Zone Menagement Pro- grom An Monetan Plane (Report) Department of Coronarce's "Swilla- ery Cattorian" (Report) The Economic Impact of Energy A- tiona Energy Data Officeton in the Forders Construction (Information) Construction (Information)	187 024 255 137	Areaustic, VA. bill, Pielo Nord Wistission Cocking Prices as a Da Feel Suppl Comm Sale (Rep Deportment of Neural Content Devolutions) National Statistics Neuroded for portal Statistics Neurophics Deport no. Sale Takey Demon Ion Special Report on Sale: Hashing Comp Deported Neurophics Neurophics Special Report on Sale: Hashing Comp Deported Neurophics Neurophics Special Report on Sale: Hashing Comp Deported Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics Neurophics
A Bit to Enclude a Nedocal Bergy Informatic System (Reinway) The Canal Zon Manageneer Pro- gram An Destine Prove Opport Program (An Destine Prove Opport) Department of Constantist' Swella- ergy Catality' Opport Pro- Tention (Catality (Catality)) Pro- Bergy Destingtion (Nat. 8) (16) Pro- Part Energy Information (Nat. 8) (16) For Energy Informa	187 024 255 137 176	Alexandria, VA hill, Padel Need Visition of Cocing Prices as a Da Pali Sophy Croser Sale (Kep Daportment of Housing and Urb Davelopmen Netional Stateferth Needed for dontal Energy Conservation period Report on Solar Beargy Denter Special Report on Saler Issay Denter
A Bit to Smokha a Molocul Bergy Information System (Pathway) Program (Pathway) Progr	187 024 255 137 176 098	Alexandria, VA hill, Fleich Need To Ere E Mitinged (Royard) Vision of Collary Editors in a Da Paul Soppy Come Shale (Roya Paulayment) Netional Standersh Needed Group Anthel Bandersh Needed Group Anthel Energy Conservation part Report on Selar Bangy Denner tion Speak Report on Selar Usaling Cobila Report on Selar Usaling Cobila Presentation Paulayment of Paulayment Partnersh Report Constraints of Paulayment Paulayment Paulayment Paulayment Paulayment Paulaymen
⁴ Bit to Enoble a Noticul Bergy Information Struct Plankaway Information Struct Plankaway Plankaway Information Plankaway Plankaway Information (Append) The Boundary Information (Append) The Boundary Information (Ant. 3) 160 The Structure (Append) Plankaway Data Collections in the Posterial Deversame (Information Ant. 3) 160 The Information (Ant. 3) 160 The	187 024 255 137 176	Amendia VA. Amendia VA. Marined VA. Waterior Colling Poisson and Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Developments Dev
⁴ At the Smokh a Noticul Bergy Into Smokh a Noticul Bergy The Canal Can Manakawa Parties of Constants Face (Appel) Department of Constant's "Smith reg Catation" (Appel) The Essentiation of the Notice Parties of Constant's "Smith Parties of Smith Constants" (Appel) Department of Constant's Constant Parties (Constant), "Smith Constant Parties (Constant), "Smith Constant Parties (Constant), "Smith Constant," (Smith Constant, Constant, Smith Constant, Constant, Smith Constant, Parties (Constant, Smith Constant, Smith Constant, Constant, Smith Constant, Smith Constant, Constant, Smith Constant, Smith Constant, Smith Constant, Smith Constant, Smith Constant, Smith Constant, Smith Constant, Smit	187 024 255 137 176 098	Alexandria, VA hill, Fleich Need To Ere E Mitinged (Royard) Vision of Collary Editors in a Da Paul Soppy Come Shale (Roya Paulayment) Netional Standersh Needed Group Anthel Bandersh Needed Group Anthel Energy Conservation part Report on Selar Bangy Denner tion Speak Report on Selar Usaling Cobila Report on Selar Usaling Cobila Presentation Paulayment of Paulayment Partnersh Report Constraints of Paulayment Paulayment Paulayment Paulayment Paulayment Paulaymen
A Bit to Enclose a Necional Berry Information System Checkway Particles Checkway Particle	187 024 255 137 176 098	Amenakin YA Mangad Qiao Tin Bea Ji Mangad Qiao Sangad Harina of Collarg Palasa na Ji Mangad Carlos San Mangad Dependential of Kenaling and the Dependential of Kenaling and the Paragement Paragement Palasa Sangad Sangad Rogina, Sang Takaya Deata Rogina, Sang Takaya Deata Rogina, Sang Takaya Deata Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sangad Sanga
⁴ At the Smokh a Noticul Bergy Into Smokh a Noticul Bergy The Canal Can Manakawa Parties of Constants, "South region in the Notice Berger (Appendix Constants," South region (Constants, "South region (Constants, Region (Constants, Region)) (Constants, "South Region (Constants, Region)) (Constants, Region (Constants, Region (Constants, Re	187 024 255 137 176 098	Amendia, V. Marada (Roya) Marada (Roya) Vasitiona (Coling Josen an Du Puel Scope Come Sala (Roya Darobergener, Sala (Roya) Darobergener, Netical Statisters Netical Gar Ropior in Skar Isturg Denni: Italian Special Ropior, and Salar Isturg Salar (Salar Salar) Salar (Salar
All the Boundar's Heissail Berger Difference of the Boundary of the general Accession Faces (Regord The Count 2 on March 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1 and 1	187 024 255 137 176 093 182	Amenakin, YA. Mangadi (Kagari) Mangadi (Kagari) Visition 5 Coling Poiss an Exp Pois Sarphy Come Sala Rage Dependential Stanford Reads and Unit Dependential Stanford Reads point Salary Committies Provide Salary Point Reads and Salary Salary Point Reads and Salary Salary Coling Descentision Factor point Salary Salary Coling Descentision Factor point Salary Salary Coling Descentision Factor point Salary Salary Point Reads and Salary Point Read
b) Bit is benchste intereste Errore blevenant - Streme (Technos) benchen Streme (Technos) benchen Streme (Technos) benchen Streme (Technos) errore (Technos) - Streme (Technos) errore (Technos) - Streme (Technos) errore (Technos) - Streme (Technos) Benege Streme (Technos) Benege Stremes (Techn	187 024 255 137 176 093 182	Amendia, V. Marada (Roya) Marada (Roya) Vasitiona (Coling Josen an Du Puel Scope Come Sala (Roya Darobergener, Sala (Roya) Darobergener, Netical Statisters Netical Gar Ropior in Skar Isturg Denni: Italian Special Ropior, and Salar Isturg Salar (Salar Salar) Salar (Salar
<ul> <li>A the Streams &amp; Rescarse Rescarse The Constraint A Measures In- The Constraint A Measures In- T</li></ul>	187 024 255 137 176 093 182 236 079	Amenda, YA. Manged Grade The Law Manged Grade The Section of the Manged Grade Section of the Section Dependence of the Section of the Manged Section of the Section of the Section of the Manged Section of the Section of the Section of The Manged Section of the Section of the Section of The Manged Section of the Section of the Section of The Manged Section of the Section of The Section of The Section of the Section of The Manged Section
A the benchsta before a feering of the second secon	187 024 255 137 176 093 182 236	Anatolis, V. Margad (2004) Margad
A the Benthals A Medical Bengs 1994 - Court 200 Medical Court of the The Court of the Court of the The Court of the Court of the The Court of the Court of the Court of the Court One Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Court of the Cour	187 024 255 137 176 093 182 236 079	Analysia VA Margad Grad Grad To Bo 1 Margad Grad Grad Hole and A Margad Grad Grad Hole and A Margad Science 1 (1998) Margad Science 1 (1998)
A the heartship Kinesak Energy 10 - Courts South	187 024 255 137 176 093 182 236 079	Anatolis, V. Margad (2004) Margad
<ul> <li>A the Smoth A House B menu of the Smoth A House A</li></ul>	187 024 235 137 176 098 182 236 079 248	Amen and Yang Yang Yang Yang Yang Yang Yang Yang
A the Bonshak Kriscal Berger 19 - Court 20 Magnetics / Horizan 19 - Court 20 Magneti	187 024 255 137 176 093 182 236 079	American and a second s
<ul> <li>A the Smoth A House B menu of the Smoth A House A</li></ul>	187 024 235 137 176 098 182 236 079 248	Amen and Ya. The set of the set o

#### Energy Digest SEPTEMBER 1977

The Effects of Oil Price Increases on Small Business Contracts (Report)	123	issues Related to Foreign Sources o Oil for the Uncod States (Report)
Energy Conservation at Government Field Installations Progress and Problems (Report)	028	Role of the international Atomic Eg- trgy Agency in Salegeneting Na-
Energy Conservation Program at Fire Government Constructors (Report	001	clear Material (Report) U.S. Naclear Non-Prohiteration Policy
The Energy Impact of Moving Depart- ment of Defense Activities from the Milliony Deran Terminal, Brooklyn, New York, to Bayonae, New Jamey		(Report) Department of the Air Force The Department of Defense's Conser-
(Report) Pollowup Remew of the Novel Pe- troleum Reserves (Report)	011	vation of Petroleum (Report) Improvements Needed in Controls and
How Federal Agencies Cas Construe Utilities and Reduce their Cost /Re-	220	Accounting for Ground Vehicle Po- troleum (Report) Procedures for Evaluating Reasonable-
part) Improvements Nortical in Controls and Accounting for Ground Vehiole Po- troloam (Report)	007	noss of Petroleum Pipelose Rans Nord Improving (Report)
issues Needing Attention in Develop- ing the Strategic Patroleum Resorve (Separt)	018	Department of the Army The Department of Defense's Comm- vation of Petroleum (Report)
Policies and Programs Being Davel- oped To Expand Processments of Products Corraining Recycled Materials (Report)	023	The Energy Impact of Moving Depart- ments of Defense Activities from the Military Ocean Terminal, Brooklyn, New York, to Bayonne, New Jessey (Seport)
Procedures for Evolutiong Reasonable- ness of Petroleum Pipeline Rates Need Improving (Aport) Procedants of Foreign and Domesia	094	Improvements Needed in Controls and Accounting for Ground Vehicle Pe- troleum (Report)
Petroleum by Department of De- ferme (Aspect) Programs and Problems of the Covern-	091	Parafic Northwett Hydro-Thermal Power Program-A Regional Ap- proach to Meeting Electric Power
riten's Utility Conservation Pro- gram (Report)	691	Requirements (Report) Power Production at Podecal Dams Could Be Increased by Modernizing Turbines and Generators (Report)
Alexandria, VA Bulk Fuchs Need To Be Better		Problems Caused by Coal Mining Near Federal Reservoir Projects (Report)
Managed (Repart) Violation of Ceting Prices in a Dafense Puel Supply Center Sale (Report)	084 128	Revenues and Costs Allocated to Fower Operations at Multiple-Par- pose Projects in the Southwestern Federal Power System (Report)
ortmant of Housing and Urban avolopment National Standards Neoded for Resi-		Solid Waste Management, Collection, Disposal, Resource Recovery, Recy- eling Program
dontial Energy Conservation (Se- port) Report on Solar Energy Demonstra-	019	Army Avdit Agency Southeastern Pederal Power Program- Pinancal Management and Pro-
ipooial Report on Solar Heating and	263	gram Operations (Report)
Cooling Demonstration Program Ways in Which Department of Hous- ing and Urban Development Can Promote Reergy Conservation (Re- port)	264	Carps of Englosers How the Pederal Government Partici- pates is Activities Affecting the En- orgy Resources of the United States (Report)
oriment of Justice Hitrest Div.		Potific Northwest Hydro-Thurnal Power Program-A Regional Ap- proach to Mosting Electric Power Requirements (Report)
teview of Voluntary Agreement and Plan of Action To Implement the In- ternational Energy Program	276	Problems Caused by Coal Mining Near Pederal Reservoir Projects (Report) Problems Caused by Coal Mining Near Pederal: Reservoir Projects (Re- titionary)
Woostion of Unstian Enrichment Services to Pael Porelga and Domostic Nuclear Resolves (Report)	238	Revenues and Costs Allocated to Power Operations at Multiple-Pur- pase Properts in the Southwestern Pederal Power System (Report)
ing the Santagic Petroleum Reserve (Report)	090	Southeastern Federal Power Program Francelal Management and Pro- erum Operations (Resout)

211

2.40

248

012

018

004

013

011

018

141

204

075

096

257

174

141

676

Improved Inspection and Regulation Could Reduce the Powehilky of Of-

Importaneous full Needeal as Potenta Energy Dus Collection, Andyrm, and Reporting (Report) Indexs: National Resources-Part III: Cost, Oll. and Gas-Bester Mesagement (Day Improv. Davdoparent and Increases Incores and Employment (Report Indoxessions on Center, Oll and Gas Indoxessions on Center, Oll and Gas Indoxessions on Center, Oll and Gas Indoxession on the Propared Alaska Cell Englishor Report

liness in Lenning the Atlance Outer Continental Shelf (Teatmong) Innes Newlook Attention in Develop-

ing the Strategie Petroleurn Reserve

Leasing of Managals on Public Londs

National Energy Folicy: An Agonda

National National Resources Library and Information Systems

Natural Gas Shortage The Role of Imported Liquefied Natural Gas (Re-

Oil and Gas Leasing on Foderal Lands (Appro) Oter Contemportal Solf Oil and Gas Davidgences. Improvements Needed in Datermaning Where to Lease and at What Dollar Wate (Report) Courter Contenential Shell Sale #35-Problems Solecting and Evoluting Lind to Land. (Reset)

Outlock for Poderal Goals to Accolor-

Pacific Northwest Hydro-Thormal Power Program-A Regional Approach to Meeting Electric Power Reconventent (Resource)

Power Production at Federal Dama Coold the Increased by Modaratzing Tarbases and Generators (Report)

Progress and Problems in Developing Nuclear and Other Experimental Techniques for Recovering Natural Gas in the Rocky Meanuals Area (Report)

Rational Exploration and Development of Outer Continental Shelf Resources (Textinenty)

Requests to Regulatory Agencies by Oil Companies for Deviations from Standard Procedures (Report)

Revenues and Costs Allocated to Power Operatorsi at Multiple-Purpose Projects in the Southwestern Pederal Power System (Report)

Role of Peckeral Coal Resources in Meeting Energy Goals Noods to be Determined and the Leneng Process Improved (Report)

Seatheastern Pederal Power Program-Financial Monogenerat and Program Operations (Agent)

Shell (Report)

ate Lessing of Oil and Gas Ro-

for Analysis (Report)

(Recent)

(NNRLIS)

spills on the Outer Couterental Shelf (Reased

n

08

23

15

33

24

22

214

141

204

037

220

1.48

096

226

17.6

Department of the Interior	
Accelerated Oater Continental Shelf Development (Testimony)	21
Accelerated Outer Continental Shelf Development (Teatmony)	215
Astants Needed to Improve Foderal Efforts in Collecting, Analyzing, and Reporting Energy Data (Report)	155
Administration of Regulations for Sur- face Exploration, Mereng, and Rec- lamition of Public and Indus Cool Lands (Report)	093
Agreement between the Secretary of the internet and Officials of the State of Unith Perturning to Oil Shale Lenses (Lense)	209
A Bdi to Establish a Nancoal Energy Information System (Teatmong)	158
California's Courtel Valley Project- -Proposed Power Rate Increase (Re-	
port) Capability of the Naval Petroleum and Od. Shale Reserves to Most Emer-	156
gaury Cil Needs (Repart) Correspond on the Energy Information	072
Art (Letter)	170
Department of the learner's Proce- durts for Approving Coal Mining Plans (Report) Department of the learner Study of	228
Shut-In Od and Gas Weil Comple- tows and Leases-QAO Observe- tows (Repar)	224
Department of the Interior's Views of Comments on Advancements of Regulations for Sarface Exploration,	
Mitility, and Redamation of Public and Indian Coal Lands (Report) Development of Federal Coal Re-	095
sources (Texasequ)	223
Domesic Boargy Batcoree and Re- serve Estimates-Uset, Linclations, and Needed Data (Report)	233
Employee Disclassives under the En- ergy Policy and Conservation Act	265
Energy Data Collection in the Poderal Government (Teatwory)	197
The Rivergy Information Act, S 1864 (Texteropy)	176
Energy Pubry Decisionmaking, Or- genization, and Noticeal Energy Goals (Appen)	193
Pederal Coal-Leasing Program of the Department of the Insertion (Report)	221
Poteral Hydrocleans: Plants Can In- crease Power Sales (Report)	201
Followup on Contain Matters Concern- ing the Inspection and Regulation of Outer Continential Shelf Oil Opena-	
tions (Report) Funds Credited to the Account of the	208
Virgan hiands for Befands from Int- port Lorense Fees (Report) Further Action Needed on Recon-	124
mendations for improving the Ad- meterization of Federal	
Coal-Leasing Program (Report) Fusite Energy Demand (Speech)	217
GAO's Energy Role (Serech)	175
How the Padetal Government Particip-	
engy Resources of the United States (Report)	691

	Statutoral Data on Petroleum and Pe- troleum Products (Report)	
	Status of the Grand Coulee-Raver	075
8	Transmission Line Project (Report) Survey of Fublicentons on Exploration,	184
82	Development and Dolivery of Alas- km Oil Market (Report)	169
	Tram-Alaska Oil PipelineProgress of Construction through Novasiber	
15	, 1975 (Repart)	084
	Department of the Navy	
15	All Parchases and Condemnation Pro-	
	readings Regarding the Naval Po- troleurs and Oil Shale Reserves	259
2	Annual Report to Congress on Naval Petroleum and Oil Shale Resorves	
,		252
0	Capability of the Naval Petroletan and Oil Shale Reserves to Meet Emer-	
	gency Oil Needs (Report) Copublity of the Naval Petroleum and	072
1	Oil Shele Reserves to Most Errer- stacy Oil Needs (Pertimony)	673
1	The Department of Defense's Conter-	
	vation of Patroleum (Report)	012
2	The Energy Impact of Moving Depart- mont of Defense Activitian from the	
	Military Ocean Terminal, Brooklyn,	
	New York, to Bayonna, New Jersey (Report)	011
,	Followup Review of the Naval Po- troleum Reserves (Report)	220
	Interovements Needed in Controls and Accounting for Ground Vehicle Pe-	
	irolaum (Report)	018
	Issues Needing Attention in Develop- ing the Strategic Patroloum Reserve (Report)	060
	Management of and Plans for the Na- val Potroleum Reserver (Report)	227
	The Navy's Practice of Discharging	
	Paul at Sea (Report) Protection of Oil Reserves	025 261
	Quarterly Report of Production from	261
	the Naval Petroleurs and Oil Shele Reserves	
	Recycling of Meternals	258
	Office of Naval Petroleum and Off	
	Followup Review of the Neval Pe- troloum Reserves (Report)	220
	Department of the Treasury	
	Requested Utility Rate Increase by the	
	Potenno Electric Powar Company (Report)	127
	Department of Transportation	
	Annual Report of the Secretary of Transportation on the Admension-	
	tion of the Natural Gas Pipeline	
	Selety Act of 1968	277
	Pederal Efforts to Improve the Pael Economy of New Automobiles (Re-	
	port)	630
	Requests to Regulatory Agencies by Oll Companies for Deviations from	
	Standard Procedures (Report)	148

Operating Cost and Environmental	
Radiation Monitoring at the Ship-	
pingport Atemic Power Station (Re- port)	042
party	~
nergy Research and Development	
Administration	
Activates of Solar Energy Coordina-	302
ton and Management Project	302
Allocation of Uraniam Enrichment	
Services to Pael Forcign and Domestic Nuclear Reactors (Report)	
Domestic Nuclear Koaccorn (Report	226
Alternative Fuels for Avletion (B.R.	
12112) (Textman)	154
	104
Assessment of United States and Inter- national Controls over the Procedul	
Uses of Nuclear Energy (Report)	247
A Bill to Extend the Pederal Energy	
Administration Act of 1974 (Ter-	
Amongy	179
Budgeting of Poderal Pinanciel Incon-	
tives for Energy Development (Ter-	
(in erg)	150
Can the U.S. Breeder Reastor Deve-	
lopment Program Be Accelerated by	
Using Poreign Technology? (Report)	
	245
Center for Energy Stockes (CES)	443
Certain Actions That Can Be Taken to	
Help Improve This Nation's	
Uranium Picture (Report)	061
The Chapping Role of the Opptral Ac-	
The Charging Role of the General Ao- sounting Office in Energy Informa-	
tion and Data Programs (Spreek)	184
Comments on Energy Research and	
Development Administration's	
Proposed Armostment for the	
Clinch Rover Breeder Reactor	
Demonstration Plant Project (Re-	
part)	044
Comments on Proposed Legislation to Change Basis for Generatized	
Change Jasis for Government	
Charge for Uranism Enrichment	121
Services (Report)	131
Comments on Selected Aspects of the Administration's Proposal for Oov-	
stration Assistance to Private Uranium Earlchment Groups (Re-	
part)	145
Comments on the Administration's	
Proposed Synthetic Fuels Commer-	
cialization Program (Report)	140
A Computer Code for Conceptual Coat Entimates of Steam Electric Power	
Plants (Concept)	401
Considerations for Commercializing	
the Liquid Metal Past Breeder Reso-	
tor (Report)	065
Contracting Out Basic Planning and	
Management Program Puscioes	
(Report)	088
Contracts Information System (CIS)	430
Controlled Fusion Atomic Data Center	
	444
Cost and Schedule Estimates for the	
Nation's First Liquid Motal Past Breeder Reactor Demonstration	
Powerplant (Report)	0.0
Coupled Energy System - Economic	
Models	429
Cricicality Data Center	445
Developing and Commercializing En-	
ergy Technology (Tentmony)	146

# Energy Research and Development Administration Pitencens for Commerce/sized

Development of Interspency Relation- ships in the Regulation of Nacion Materials and Facilities (Report)	055
Demostic Energy Resource and Re-	
and Needed Dets (Report) Beological Sciences Information Con-	233
	445
Efforts to Develop Two Nuclear Cos- opts That Could Greatly Improve This Country's Patone Energy Span-	
Eperav Abstracts for Policy Assisting	648
(EAPA) Energy Conservation Figurany (Tes-	41
Almony/	¢27
Borrgy Pilms Distribution The Energy Information Act, S. 1964	434
(Testman)	176
Reergy Policy Decisionenthing, Or- gaminature, and National Energy Otada (Report)	193
Entray Research and Development	
Administration's Contingency Fish for More Barlohment Capacity at	
Pertsmouth, OH (Report)	092
The Energy Restarch and Develop- ment Administration's Propared	
Contract with Project Management	
Corporation, Commonwealth Ed- son, and the Texasonee Valley Au-	
thority (Resord	055
Energy Research, Development, and Demonstration Inventory	
Environmental Information Analysis Center (EIAC)	
Environmental Resource Conter	646
(ERC)	449
ERDA Energy Research Abstracts (ERA)	48
BRDA Headquarters Technical Li- brary	413
ERDA Report of Review of Design, Conservation, and Plaseing of	
Futurelism Processing Pacifities An Evaluation of Proposed Pederal At-	299
sistance for Financing Commerciali-	
zation of Econogieg Reargy Technologies (Report)	151
An Evaluation of Proposed Federal As- sistence for Financing Commercial-	
sistence for Financing Commercial- zation of Emerging Energy	
Technologies (Tentmony)	152
The Evolution of the Administratico's Proposal for Government Assist-	
ance to Poyato Uranium Enrich-	
ment Groups (Textmany)	053
Evaluation of the Administration's Proposal for Government Assist-	
ance to Privete Uranium Barich- ment Groups (Report)	124
Evaluation of the Publication and Dis-	
tribution of "Shedding Light on Facts about Nuclear Energy" (Re-	
(MAR)	664
Evaluation of the Status of the Past Flag Tost Pacifity Program (Report)	665
Federal and State Solar Boargy Re- search, Dryeloprent, and Denon-	
stration Activities (Report)	200
Foders) Coal ResearchStatus and Problems to Be Resolved (Report)	ceo
The Pederal Wind Energy Program	206
(Report) Financial Information System	42)

Demonstrations of Energy Technologies (Terrinorgi 141 Fossill Boersy Undere 436 Improvements Needed in the Federal Enhanced Oil and Gas Recovery Restarch, Development, and Demonstration Program (Report) 155 Information Center for Energy Safety 611 (ICB5) International Cooperation in Energy Rescarch and Development (Tra-George 246 Issues of Nuclear Fuel Reprocessing and Disposal of High Level Nuclear Waste (Sprech) issues Related to the Closing of the Nuclear Fael Services, Incorsorated, Reprocessing Plant of West Valley, New York (Report) lasses Related to the Closing of the Noclear Fuch Services, Inc., Reprocessing Plant at West Valley, New York (Technoly) 071 The Legelity of the Reported Use by the Energy Research and Development Administration of Cersan Posca: al Baargy Punds (Leaver) Liquid Metal Fast Breeder Reactor Pusi-Cladding Information Center (LMFBR) 40 Liquid Metal Past Breeder Reactor Plant Parameter Information Sys-1073 The Liquid Menal Pass Breeder Resotor Program-Past, Present, and Futire (Repeat) Luquid Metal Fist Ecceder Reactor Program-Pass, Present, and Pature (Testman) 0.45 The Logard Metal Past Breeder Rescter Promises and Uncertakelities (Staff study) 0.49 Management and Freding Aspects of Three Noncoclear Energy Research, Development, and Demos-203 stration Subprograms (Report) National Energy Policy An Agenda for Anthrain (Reserve National Geothermal Information Re-INUTCE (CRID) National Plan for Energy Research, Development, and Demonstration Creating Energy Choices for the Pt-428 National Solar Heating and Cooling Information Center 422 National Standards Needed for Residential Barrar Conservation (Report) 019 Nevada Applied Ecology Information 412 Center Nuclear Material Management Plan 126 Opportunities for Mere Effective Lin of Animal Masure (Report) 026 Oppercyclines to improve Planning for Solar Energy Research and Deve-Icoment (Report) 202 Plans for Construction of a Mag notehydrodynamics Test Facility in Montana (Report) 086 Peor Management of a Nocirar Lie Water Reactor Safety Project (Re

part

#### Energy Research and Davalopment Administration

Problems in Identifying, Developing, and Using Geothermal Resources	
(Report)	199
Proposed Agreements for Cooperation	
with Other Nationa on Atomio En-	324
The Proposed Contrast for the Clinch	
River Breeder Reactor Project (Tea- Insmith	CSE
Proposed Distribution of Special Nu- olear Materials	333
Reactor Information File	437
RECON (REmon CONtole)	-440
Report on Fast Flax Test Facility Report on the Status of Major Con-	301
scructure Projects Experiencing Sig- informer Variances	300
Role of the International Atomic En-	
orgy Agency in Safeguarding No- clear Material (Report)	240
The Safeguards and Security of the En-	
ergy Research and Development Administration's Rocky Flats	
Platoneen Facility (Report) Shortcomings in the Systems Used to	660
Control and Protect Highly Danger- ous Nuclear Material (Report)	062
Somo-Economic Environmental Demographic Information System	
(SEEDIS)	-04
Solar Energy Update	400
Status and Obstacles to Commercial- zation of Coal Liquebough and	
Gasification (Report)	685
Status of Federal and Private Research and Development Efforts to Con-	
sceve Energy by Reducing Electric	
Fower Transmission Losses (Staff mady)	025
Stripmining and Land Roclamation In- formation System	435
Survey of Federal Programs and Poli-	
eses for Disposing of Obsolete and Unastd Nuclear Facilities (Report)	057
Technical Books and Menographs	442
Technical Information Center (TIC) This Constra's Most Economics Labor	439
This Country's Meet Expensive Light Weter Reactor Safety Test Pecifity	
(Report)	059
An Unelassified Digest of a Classified Report Entuited "Safety and Trans-	
postation Safaguards at Rocky Flata Nuclear Weapons Flant" (Report)	067
Using Solid Waste to Conserve Re- sources and to Create Energy (Re-	
perif U.S. International Nuclear Subguards	013
Rights Are They Bring Effectively	
Exercised? (Unclassified Digest) (Report)	243
U.S Nuclear Non-Proliferation Policy	
(Report) U.S. Uzenkan Resources and Supply	248
Ways to Strengthen Congressional	***
Control of Energy Construction Projects Other Than Nuclear (Re-	
projects Littler Than Muchair (Au-	192
Assistant Administrator for Planning	
and Analysis	
National Plan for Energy Research, Development and Desconstrution	
Planning and Analysis	305

Assistent Administrator for Soles, Geothermal, and Adveced Intrgy System	
Activities of Each Geothermal Demensionition Project	307
Activities of the Goothermal Coords- nation and Management Project	356
Fonancial Report on the Geothermal Resources Development Fond	309
Nauceal Pregram for Solar Heating and Cooling	308
Office of Public Affeirs Fostel Energy Program Report	211
Report on ERDA's Nonsuclear Ac- tratics	310
Office of the Gentreller Proposed Externishment of Janit Fed- ersi-Industry Neuroselear Corpora-	
tion Report by the U.S. Estrgy Research and Development Administration Status of Construction Projects and	315
Other Data Report on Activity and Program Index	315
of the Entrgy Research and abovel- opment Administration Status of Construction Projects and other	
Data Report on Reprogramming Action for the Nuclear Materials Program	312
	314
Energy Resources Countil A Bill to Extend the Federal Energy Administration Act of 1974 (Ten investe) Federal Efforts to improve the Fuel	179
Economy of New Automobiles (Re- pert)	600
Environmental Protection Agency Energy Data System (EDS)	341
Federal Efforts to Improve the Fael Economy of New Automobiles (Re- pord)	600
Followup on Certain Matters Concern- ing the Inspectron and Regulation of Outer Contential Shelf Oil Opera- tions (Report)	238
How the Federal Government Partici- potes in Activities Affecting the En- orgy Resources of the United States	
(Ryan) Improved Inspection and Regulation Could Reduce the Possibility of OB-	078
spills on the Outer Continents Shelf (Report)	100
Opportunities for More liffective Use of Animal Menure (Report)	025
Policits and Programs Being Deve- loped To Expand Proceedment of Products Containing Recycled	
Moterials (Report) Potential for Using Electric Vehicles	023
on Pederal Installations (Report) Requests to Regulatory Agendits by Oil Compasses for Drivations from	022
Standard Propertures (Report) Review of the Operature Division of	148
the Polocal Energy Administration (Report)	115
Review of the Progress and Problems of Resource Recovery Sisce the Pas- age of the Resource Recovery Act	

of 1970 (Tenneous) Soqueyah Nuclear Plant (Sinf) analy Stell Prevention Control and Counter-	018 043
measure System (SPCC3) Technical Anianoce Data System (TADS)	342 340
Office of the Assistant Administrator for Air and Weste Monagement Resource Recovery and Source Reduc- tion	279
E. S. Addison, Int. Federal Energy Administration's Ac- lates on Allocation and Pricing of Fuel (Report)	116
Europeon Atomic Energy Community Assessment of United States and Inter- national Controls over the Praceful Uses of Natione Energy (Report) U.S. International Novelet Storgands Rights Are They Being Effectively Exercised? United States and Digord (Report)	247 243
Export-Import Bank of the United States	
The Parahase of Short-Supply, Energy- Related Berni through the Export- Import Bank of the United States (Report)	235
Saburission of U.S.R. Energy- Related Transactions for Congress- monal Review	290
US Prosectal Assistance in the Deve- logeness of Pereign Nuclear Energy Programs (Report)	229
Federal Energy Administration	
Action Proposed Concerning Conflict of Interest	298
Action Perposed Concerning Conflict of Internst The Administration of the Petroleam Set-Aside Program by State Energy Offices (Report)	288 122
Action Propused Concerning Conflict of Interest The Administration of the Petrolearn Sei-Aside Program by State Energy Offlose (Report) Alleged Westo of Menory in Printing Cents on Gas Residence Coupons (Learn)	
Action Proposed Critocarring Conflict of Intervent Set-Add Frequent by State Energy Offices (Boyon) Allaged Wate of Meory in Printleg Cetts on Gue Retoining Couper Intervent of the Fodoral Energy Administration Act of 1574 and the Exercision of the Energy Encourse, and Analysis of the Retery, Encourse, and	122
Action Proposed Cincensing Conflict of Interview The Administration of the Petoslass The Administration of the Petoslass Ottless (Moynel) Allaged Watte of Mooray in Pointing Cetts on Gas Resisting Geogen Association of the Experiment Association of the Experiment (Langer of the Exputition Date Extension of the Exputition Date Extension of the Exputition Date Extension of the Exputition Date (Langer Date) Party and Peterson of the Experiment (Langer Date) (Langer Date) (Langer Date) (Lang	122 112 173 129
Atton Preprod Crimentia Conflict of Intern The Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict C	123 110 173
Atton Physical Criments of the Finish Conflict Tes Autostations of the Finish Energy Services and Services and Services and Services Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Conflict Confl	123 113 173 129 345
Atton Physical Crimenta Conflict Ten Annealments of the Physical Conflict Office Displays in Space Sciences Office Displays Physics Energy Office Displays Office Office Office Costs on One Retioning Coupton Barbon Attoneous Conflictions and office Office Energies of the Space Office Office Energies of the Space Office Office Displays Office Office Office Displays Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office Office	122 112 173 129 345 136
Autor Previous Consuming Calified To Prevalence of the Prevalence Construction of the Preval	122 113 129 129 129 129 129 129 129 129 129 129
Asian Presson Concerning Grade L The Advancement of a for Particular Scheduler and Scheduler and Scheduler Concerning Scheduler (Scheduler Concerning) (Scheduler) Concerning Scheduler) Concerning Scheduler Scheduler (Scheduler) Scheduler (Scheduler) Scheduler (Scheduler) Scheduler (Scheduler) Scheduler) Scheduler (Scheduler) Scheduler) Scheduler (Scheduler) Scheduler) Scheduler) Scheduler (Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Scheduler) Sche	122 110 173 129 245 126 126 273 120 265
Autor Previous Consuming Calified To Prevalence of the Prevalence Construction of the Preval	122 110 129 345 128 128 128 129 273 120

Crude Oil Engelements (Equalization)	
	352
Crude Oil Pirat Parchastr	355
Crude Oil Pricing Model (DCROPS) Department of Commerce's "Savila-	397
ergy Cistons" (Report)	024
Demestic Crude Oil Prioing Policy and	
Related Production (Report)	112
Domestic Brergy Resource and Re-	
serve Estimates-Uses, Limitations, and Needed Data (Report)	273
Drilling Equipment Predaction Survey	440
Draitig continues rational 2014y	359
Dynemic Input-Output Lucear Pro- strentting Model for Research En-	
ergy impact Analysis (DIOLP)	391
The Economic and Environmental Im-	
paot of Natural Gas Cartailments during the Winter of 1975-76 (Re-	
north	082
The Economic and Environmental Im-	
pact of Natural Oas Contailesents	
During the Wister of 1975-76 (Tes-	083
Efforts to Encourage Contervation in	063
the Private Sector (Report)	009
Biotineal Pinancial Forecasting Model	
(BSE Model EUPINANCE)	377
Electric Rate Demonstration Oata Sys-	
tem Energy Contervation at Government	346
Path Instaliations. Progress and	
Prolatena (Report)	028
Energy Conservation Plannoing (Tep-	
(Antonpo)	027
Energy Conservation Practices En- cograged by States (Report)	005
Baergy Data Collection in the Federal	
Government (Tennessy)	157
The Energy Information Act, S. 1864	
(Testimory)	176
Energy Information Reported to Con- gress as Required by Public Law 92-	
319	283
Energy Policy Decelorantking, Or-	
gandzanon, and National Energy	
Goals (Report)	193
Energy Reorganization Legislation (Trativoral	194
As Evaluation of Proposed Federal As-	
sistance for Prancing Commercial-	
zation of Becorging Energy Technologies (Report)	151
The Exponention of Coal (Report)	244
PEA Crude/Transportation Model	399
FEA Data Dictionary	366
FEA Houtehold Energy Expenditure	
Model (HEEM)	323
FEA Horsshold Energy Survey	394
PRA OII Impert System	354
Pederal Assistance to State and Local	
Governments in Doveloping and Administrating Energy Programs	
(Report)	143
Redard Efforts to Conserve Breeze	

- Federal Efforts to Conserve Breegy (Report)
- Federal Biflorts to Conterve Fuel In the Movement of Men and Materials (Report)

00

126

Federal Energy Administration Efforts to Audit Pael Oil Supplies of Major Utility Companies (Project Utility) (Resort)

,	Federal Energy Administration Par- sonnal Turnover Rates (Report)	181
ŝ	The Federal Rossey Administration:	101
	Quarterly Report on Private Grav- ances and Redress	256
		280
	The Federal Energy Administration's Compliance and Enforcement Ac-	
2	torties (Tennary) The Enferth Entern Administration	119
	The Federal Energy Administration's Compliance and Enforcement Pre-	
	coises (Territmengs	125
	Federal Energy Administration's Ef- forts to Audia Demostic Crude Og	
2	Producers (Report)	133
	The Federal Energy Administration's Progress in Redirecting its Compli-	
	ance and Enforcement Pressant (Re-	
	porti	120
	Federal Emergy Conservation Perfor- mence System	2.0
2	Pederal Energy Gastellings Weakly	
	Supplement	282
	Federal Energy Information Locator System (FEILS)	366
	Financial Distilorares by Employees	
•	Performing Panetions under Energy Policy and Conservation Act	287
	Fiscal Impact of Energy Price Changes	207
5	Purchases of Goods and Services Funds Credited to the Account of the	395
	Vargin Islanda for Refunds from Im-	
	port Lisense Poos (Report)	124
	Faters Brangy Domand (Speech) GAO's Energy Role (Speech)	175
	Galf Oil Corporation's "Double Dis-	
	pate" on Crode Oil Product Cests	
	(Report) How Paderal Agencies Can Consurve	138
	Utilnies and Reduce their Cost (Re-	
	parti Insportance of Financial Data in Eva-	-007
	luncing Federal Energy Programs	
	(Speech)	144
	Improvements Needed in the Federal Enhanced Oil and Oas Recovery	
	Research, Development and	
	Demonstration Program (Report) Improvements Still Needed in Federal	155
	Energy Dots Collection, Analysis,	
	and Reporting (Report)	182
	Internet Distribution impact Model International Coal Supply Model	090 387
	International Energy Evaluation Sys-	387
	tem (TEES)	384
	International Oil Supply Model	358
	issues Needing Attention in Develop- ing the Strategie Petroleum Reserve	
	(Report)	090
	Joint PEA/EOM Petroleum Reporting System	375
	The Lideld Metal Past Reader Reso-	3/3
	tor: Provises and Uncertawilles (Stoff study)	047
	Major Prei Eurolog Instaliation-Early	049
	Planning Process Identification	
	(EPPE) Major Fuel Eurning Installations	235
	(MPBI)	356
	Mandatory Oil Imports Project	
	(MOIP) Market Shares System	353 570

Middle Distillate Price Monitoring Syntam

### Federal Energy Administration

347

Monthly Energy Review	281
Monthly Petroleum Statistics Report	285
National Coel Medel (RMAC)	379
National Energy Information Center (NEIC)	347
National Energy Policy: An Agenda	
for Analysis (Report)	191
Natural Gas Curtailmenta Notural Gas Shortage Model	\$37 382
Natural Gas Shortage The Role of Im-	
ported Liquefled Natural Can (Re- port)	241
Neoclassical Regional Growth and En-	
ergy Price Model OECD Recrey Damand Model	369
Off and Gas Reserves System	386
Oil and Gas Supply Model	378
Outlook for Federal Geels to Acceler- ate Leasing of Oll and Gas Re-	
sources on the Outer Continental	
Shall (Report) Potroleum Macket Shares	214
Plume Model	342
Problems in the Federal Energy Ad-	
multitution's Compliance and En- forcement Effort (Report)	118
Problems in the Federal Energy Of-	
fice's Implomentation of Emergency Potroleum Allocation Programs at	
Regional and State Levels (Report)	108
Problems of Independent Refiners and Gatoline Retailers (Report)	121
Project Costerve	344
Proport Independence Evaluation Sys- tem (PIES)	281
Propost Operations System (FOS)	361
Propana/Balana Allocation System	349
The Parchase of Short-Supply, Energy- Related Juans through the Expen- import Sonk of the United States	
Import Bank of the United States (Report)	276
Refinery Cost Pasathrough	349
Regional Econometric Demand Medel and Auto Simulation Model (RD4)	
Regional Industrial Multiplier System	355
(RIMS)	392
Requests to Regulatory Agencies by Oil Companies for Deviations frees	
Standard Procedures (Report)	148
Reserves Allocation and Mine Cost Model (RAMC)	350
Review of PPC and FEA Actions in	
Assessing the Impact of Natural Gas Custalizents during the Winter of	
1976-77 (Letter)	089
Review of the Pederal Energy Ad- ministration's Advisory Commutees	
(Report) Review of the Information-Onthering	183
Practices of the Paderal Energy Ad-	
ministration (Report) Review of the 1974 Project Independ-	190
ence Evaluation System (Report)	178
Severance Tax Model	396
Short Term Cost Demand Poteresting Model	376
Short Term Petroleum Domand Pore-	
casting Model Sile Obtribution Model	353 354
Staffing of Pederal Rosery Administra-	
sion's Office of Communications and Public Affairs (Report)	164
(mpa)	

#### Federal Instay Administration

Federal C

Assect

Chaple

Sympe Erers

Federal /

Federal F

Strategic Petroleum Reserves Pro- gram-Wide System (SPR)	363
Subpart L Survey of Publications on Exploration, Development and Delivery of Alas-	260
kan Oil Market (Report)	169
Transfer Pricing System Trends in Refinity Clipacity and Univ- cation of Petroleum Refinences in the	351
United States and Foreign Reflacty Experting Centers	360
Underground Gas Statage System	371
Violation of Cesling Prices is a Defense Fort Supply Cesari Sale (Report)	126
Office of Energy Conservation and Environment	
Euergy Conservation Federal Energy Management Program	292
Federal Energy Micogeneral Program Auroral Report	273
Industrial Energy Efficiency Pro-	275
Operation of State Energy Conserva- tion Plans	285
Progress of Energy Construction Pro- gram for Consumer Products Other Than Automobiles	274
Office of Energy Researce	
Development Scategic Pepoleum Reserve Plan	207
Office of Management and	
Advielatoritan Federal Energy Administration An- nual Report to the President and Congress	290
Office of Reputetory Progress Everyptice of a Refined Petroleast Predict from the Mandatary Pe- troleast Allocation and Pace Regu- lations	291
Region I Office, Bastees, MA Reserve of the Operations Drysson of	
the Federal Energy Advancementation (Repart)	115
Suppliers' Compliance with Allocation and Price Regulations (Report)	100
Region IX Office, Son Proncisco, CA Pederal Energy Administration's Ac- uses on Alleonnes and Procing of	
Feel (Aspent)	114
Region X Office, Seattle, WA Insproving the Operations of the Fed- eral Energy Administration Region X Office (Report)	111
ideral Energy Office	
Actions Needed to Improve Pederal Efferts in Collecting, Analyzing, and Reporting Energy Data (Report)	159
The Cost of Living Connect's Actions to Assure Thirt Cost Increases for Petroleum Products Were Made in Accordance with Petroleum Pricing	
Regulations (Report) Regulations (Report)	106
Mandatory Petroleum Allocatora Program and the Regulation of Pe- troleum Pecitia (Recal)	102

175

....

099

406

:07

182

074

153

191

413

412

412

114

416

415

412

241

113

139

401

402

132

a77

101

078

172

140

leral Government Accountants Association, Philodelphia		Funce Energy Demand (Speech) GAO's Energy Role (Speech)
hopter, Eighteesth Annual		Clas Supply Indianors
iympaslum Energy, the Boonomy and the Budget (Speech)	14P	How the Federal Government Partici- pates to Activities Affeoting the En- ergy Resources of the United Status (Report)
feral Meriline Commission Requests to Reprintry Agencies by		Hydro and Electric Recurring Data Reports
Requests to Registery Agencies by Oil Companies for Developer from Standard Procedures (Report)	148	Hydroelectric Power Resources of the United States (HPR)
teral Power Commission		Improvements Still Needed in Folleral Energy Dets Collection, Analysis, and Reporting (Report)
Access of the Podenti Power Commis- soan to Bureau of Reclamation Re- cards to Invert Compliance with the		Information on the Proposed Alaska Od Papeline (Report)
Federal Power Act (Letter) Actions Needed to Imprave Pederal	163	Management Improvements Needed is the Pederal Power Commission's
Efforts in Collecting, Analyzing, and Reporting Energy Data (Report)	159	Processing of Electric-Rate-Increase Cases (Report)
Actuants Taken by the Pederal Power Commission on Prior Recommenda-		National Energy Policy: An Agenda for Asalysis (Report)
tons Concerning Regulation of the Natural Gas Industry and Manuar-		Natural Gas Company Operating In- fremation File
ment of Internal Operations (Report)	1.0	Natural Gas Ostrubution Model
Amount of Natural Gas that Could Be Released from Pederal Price Regula-	140	Natural Gas Industry Evaluation Sys- tems
teens open Explanton of Contracts from 1975 through 1985 (Testloong)		Neural Gas Regulations System (Pro- ducer Rate)
A Bill to Establish a National Energy	137	Natural Cas Regulation System (Pipe- line Rate) Natural Ons Regulation System (Pro-
Information System (Pearsons) A Bill to Extend the Federal Socray	158	ducer Cemficate)
Administrations Act of 1974 (De- awarg)	179	Natural Gas Regulation System (Pape- late Certificate)
Bulk Electric Power System Reliability	404	Natural Gas Shortage The Role of Im- ported Liquefied Natural Gas (Re- port)
The Changing Rule of the Gaseral Ac-		Need for Improving the Regulation of
counting Office in Energy Informa- tion and Data Programs (Specific Comments on the Energy Information	186	the Natural Gas Industry and Man- agement of Internal Operations (Re-
Act (Leine)	170	port)
Corparate, Passonal, and Economic Information File (RISCEID)	402	Need for the Federal Power Commi- sion to Evaluate the Effectivencia of the Natural Gas Cartellment Policy
The Economic and Environmental Im- pact of Natural Gas Consumption		(Report) Need for the Federal Power Commis-
damag the Watter of 1975-76 (Re- port) The Economic and Economics and Im-	062	sion to Improve the Regulation of the Natural Gas Industry and Man- agement of Its Internal Operations
pact of Natural Gas Cumulentents During the Waster of 1975-76 (Tea-		(Teaman)
presento	083	Official FPC Piles and Records Power Surveys and Systems Evalua-
Electric Power Fuel and Environmental Analysies	405	tion
Electric Regulatory Activities	408	Problems in Lecensing Hydrocloctric Projects (Report)
Snergy Conservation Practices En- couraged by States (Report)	005	Progress and Problems in Developing Nuclear and Other Experimental
Energy Data Collection in the Federal Governmenter. (Textbuose)	157	Techniques for Recovering Natural Gas in the Rocky Mountain Area
The Energy Information Act, S. 1864 (Technory)	176	(Aspard) Proposed Power Rate increase of the
Energy Policy Decisiontraking, Or- generation, and National Energy Goals (Report)	193	Buresu of Reclamation's Central Valley Project (Teasmony)
An Evaluation of the Pederal Power Contribution's Relevaling on Unit-		Receipt and Coordination of Natural Gas Reserve Data (Report)
tics' Construction Work in Progress (Report)	229	Reliable Contract Soles Data Needed for Projecting Amounts of Natural Gas That Could Be Derogulated (Re
The Federal Income Taxes of Class A		per()
and B Electric Utilities (Report)	185	Requests to Regulatory Againeses by
PPC Badget Files FPC Library	400	Oil Compaties for Deviations from Standard Procedures (Report)

# Regulatory Agencies by Energy Digest SEPTEMBER 1977

ь.

REVENUES and Costs Allocated to	
Power Operations at Multiple-Pue- pase Projects in the Southwestern Federal Power System (Report)	096
Review of FPC and FEA Actions in Assessing the Impact of Natural Gas Curualments during the Winter of 1976-77 (Laster)	08/9
Southeastern Pederal Power Program- -Freazenth Management and Pro-	
gram Operations (Report) Special Reports Issued by the FPC and Federal Power Continuation Publics	174
tions Status of Pending Hydroelectric Ap-	411
phentoent Survey of Federal and Electric Unity	410
Procurements of Power Equipment (Report)	162
Bareau of Natural Gas Effect and Operation of Intenstate Compacts Rolaung to Natural Gas	297
Burners of Power Reports of Costs of Cortam Structures on Nongovernment Waters	298
Federal Supply Service Dual Fact Program (Report)	001
Energy Efficiency Ratios of Window Air-Candilisaters (Report)	003
Federal Trade Commission Comments on the Energy Information	
Act (Lentr) The Energy Information Act, S. 1864	170
(Termina) Removes to Removers Areasing by	174
Ol Compares for Devisions from Standard Procedures (Report)	148
Financial Accounting Standards Board	
Importance of Financial Data in Eva- basing, Pederal Bacrgy Programs (Speech)	144
Florido	
Office of Perjoleum Allecotion The Administration of the Petroleum	
Set-Ande Program by State Energy Offices (Report)	122
Ford Foundation Amena's Energy Palames (Speech)	190
National Ocean Policy Study (Ten-	212
Frederickson Tank Lines Foderal Energy Administration's Ac- tions on Allocation and Pricing of Field (Report)	116
General Services Administration Companion of Energy Use in Pro- Pederal Office Baildings (Repart)	017
Dual Fuel Program (Report)	001
The Effects of Oil Prios Increases on Small Business Contracts (Report)	123

#### Field Installations: Progress and 03 Problems (Report) Energy Conservation in Pederal Office Buildings in California (Report) 00 Energy Efficiency Ratios of Window œ Air-Conditioners (Report) How Federal Agencies Can Conserve Utilities and Reduce their Cest (Arα. port) Policies and Programs Bang Daveloped To Expand Procurement of Products Containing Eccycled Materials (Report) 03 Progress and Problems of the Government's Utility Conservation Program (Report) Requested Utility Rate Increase by the Potomac Bestrac Power Combiny (Report) Geological Survey Administration of Regulations for Surface Exploration, Minute, and Rec-Iscoution of Public and Iscian Coal Lands (Report) A Bill to Establish a National Energy Information System (Teathough) Comments on the Energy Information Act (Letter) Department of the Interior's Procedanes for Approving Cost Mitting Plans (Report) Ornertment of the Intener Study of Shut-In Oil and Gas Wall Completions and Lenses-GAO Observa-2 tions (Report) Department of the laterior's Views of Comments on Admenistration of Regulations for Surface Exploration Mining, and Recolomorous of Public and Indian Coal Lands (Report) 0 Effects of a Change in Size Standard for Small Business Petroleurs Refinscs (Report) Energy Data Collection in the Federal Gevenneet (Tenimone) Energy Resource Data Systems Excloration of National Petroleum Roserve in Alaska The Exportation of Coal (Report) Pollowup on Certain Matters Concern ton the Inspection and Regulation of Outer Centinental Shelf Oil Operations (Report) The Geological Survey's Inadequate Action on Recommonditures Concorning Inspection and Regulation of Outer Centinental Shelf Oil Operations (Report) Geologic Spreres, Investigations, and Roseerch Program How the Federal Government Participates in Activities Affecting the Enorgy Resources of the United States (Report) Improved Inspection and Regulation Could Reduce the Passibility of Oilspills on the Outer Contentotal Shelf (Recent) Improvements Still Needed in Federal Energy Data Collection, Annivata and Reporting (Report) Indian Natural Resources-Pert III

Energy Conservation at Government

Indian Natural Resources-Pert II Cool, Oil, and Gas-Beater Management Can Improve Development

	and increase income and Employ- ment (Regard)	225
28	Information on Cortain Oil and Gas In- dustry Oversight Responsibilities	
22	(Report)	105
35	Land and Mineral Conservation Infor- mation System	326
27	National Water Data Exchange (NAWOEX)	325
	Problems in Identifying, Developing, and Using Geothermal Restricces (Report)	199
23	Progress of and Pature Plans for Ex- piceation of National Petroleum Re-	271
21	serve in Alaska Refends on Oater Continental Shalf	200
	Lenies Role of Federal Cool Resources in	269
27	Meeting Energy Goals Needs to be Outermined and the Leasing Process Improved (Report)	226
	Guil Oli Carp.	
93	Galf Oil Corporation's "Double Dip- ping" on Crude Oil Product Costs	
58	(Report)	139
70	Internal Revenue Service The Federal Income Taxes of Class A and B Electric Utilities (Report)	185
28	Problems in the Foderal Energy Ad- multitution's Compliance and En- forcement Effort (Report)	118
24		
	International Atomic Energy Agency	
	Assessment of United States and Inter- national Controls over the Perceful	
<b>45</b>	Uses of Nuclear Energy (Report) Role of the International Atomic En-	20
49	ergy Ageory In Safeguarding Nu- clear Material (Report)	240
57	Role of the International Asomic Ea- orgy Agenty in Safeguarding No-	
38	clear Maserial (Testimony)	242
70	U.S. Pinesciel Assistance in the Dovel- options of Foreign Nuclear Energy	
44	Programs (Report) U.S. International Nuclear Sufeguards	235
	U.S. International Nuclear Sufeguards Rights, Are They Being Effectively Exercised? (Unobssified Digest)	
08	(Report)	2<
	Interstate Commerce Commission Actuate Needed to Improve Federal	
22	Efforts in Collecting, Analyzing, and	155
127	Reporting Storryy Data (Report) Procedures for Evaluating Ressonable-	
	ness of Poiseleum Pipelum Rates Need Improving (Report)	0
78 1	Requests to Regulatory Agencies by Oil Compares for Deviations from Standard Procedures (Report)	Ŀ
00	Massachusetts	
152	Dept. of Public Utilities Management Improvements Needed	
	is the Reduct Banne Commission's	

Report to the President by the Neeless

Sequeyah Nuclear Plant (Stell made)

Summary of Abnormal Occurrences

Regulatory Commission

069

ais

043

0000

Special Legislature Communion on Menne Boundaries and Resources		New York
listnes in Leasing the Adams Outer		Energy 3
Continental Shell (Teatmony)	213	Authori
		Issaes
National Advisory Council on		Naci
International Monstory and		York
Financial Pelicias		
The Purchase of Short-Supply, Energy-		Office of
Related Items through the Export-		The Ad
Import Bank of the United States		Set-A
(Report)	235	Office
Notional Agrongutits and Space		North Atla
Administration		A Summ
Commentes en H R 11212, 93ed Con-		pande
gress, a Bill to Further Besessch.		die Er
Development, and Commercent		
Demonstrations in Genthermal Re- crgy (Leare)		Nuclear Fu
(TRY (LEAN)	196	Issues R.
Federal and State Solar Energy Re- search, Development, and Domon-		Nucle
straten Activities (Report)	200	entrop
The Federal Wind Energy Program		York
(Report)	235	
Problems in Mentifying, Developing,		Nuclear Re
and Lineg Geothernal Resources		Assessme
(Report)	199	Uses of
		Bellefont
National Highway Traffic Safety		Bodget H
Administration		
REASTA of Average Fact Economy		Can the keeper
Standards under Tele V of Motor		Using i
Vehicle Information and Cost Sav-		Cardy (
ings Act	275	Cost and
		Nation
National Oceanic and Atmospheric		Breedo
Administration		Powers
The Coastal Zone Management Pro-		Orvelope
gram An Uncertain Fature (Report)		steps in
	187	Materia
Report to the Congress on Coastal		The Energy
Zone Management	255	(Tents
		Information the Nuc
National Science Foundation		(Appart)
Comments on H R 11212 43rd Con-		Internatio
greur, a Bill op Further Research,		Reicard
Development, and Commerceal		(mony)
Demonstrations in Geothermal En-		lanes of
Federal and State Solar Energy Re-	196	and Des
search, Development, and Damon-		Waste 4
station Activities (Report)	200	Issues Rel
The Federal Wind Energy Program	700	Nuclear
(Arpan)	206	persed,
How the Federal Government Particip-	~	Valley,
		Issues Rel
ergy Resources of the United States		Notices
(Report)	095	essing P York (7
Problems in Identifying, Developing,		National E
		for Anal
	199	Nacion
Review of Selected Federal and Private		Program
Solar Energy Activities (Report)	197	Detta 1
		Operatio
New Mexico		(Report)
		Foor Mana
Office of Petroleum Allocation		Water R
The Administration of the Petroleum		port
Set-Aside Program by State Energy		Reduces 3

Autoenty Issues Related to the Chang of the Nachar Fael Service, Inc., Reprot- essing Plant at West Valley, New York (Teatwoorg)	
Office of Petroleum Alistetien The Administration of the Petroleum Sel-Aude Program by State Energy Offices (Report)	,
North Atlantic Teady Organization A Summary of European Verss on De- pendency of the Free World on Mid- dic East O.t. (Report)	2
Nuclear Fuel Services, Inc. Issues Related to the Cloung of the Nuclear Fuel Services, Inc., Reproc- essing Plant at Work Volley, New York (Textunesy)	
Notion: Regulatory Commission Assessment of United States and Inter- national Controls over the Pencetal Uses of Nuclear Energy (Report)	2
Bellefonie Nuclear Plant (Staff study)	0
Budget History Tables	2
Can the U.S. Breeder Reactor Deve- lopment Program Be Accelerated by Linng Poreign Technology? (Report)	2.
Cost and Schedule Estimates for the Nation's Print Legad Metal Past Breefer Reactor Demonstration Powerplant (Report) Development of Interagency Relation-	64
ships in the Regulation of Nuclear Materials and Facilitate (Report) The Energy Information Act, S 1864	05
(Teramony) Information-Galagong Accupition of	17
the Nuclear Regulatory Commission (Aport) International Constitution in Environ	18
International Cooperation in Energy Research and Development (Ten- tratony) Issues of Nuclear Fost Reprocessing	24
Waste (Speech)	-
Issues Related to the Closing of the Nuclear Paul Services, Incor- portial, Reprocessing Plant at West Valley, New York (Report)	070
Issues Related to the Closing of the Noticer Fuel Services, Inc., Repea- esting Plant at West Valley, New York (Tashnay)	
National Energy Pohry: An Agenda for Analysis (Report)	(01
Nuclear Regulatory Communica's Program for Evaluating Baviron- mental Impacts of Construction and Operation of Nuclear Powerplants (Report)	191
Poor Management of a Nuclear Light Water Rector Safety Project (Re- port)	051
Reducing Nuclear Powerplant Lead-	063

times: Many Obstacles Remain (Re-

Energy Responds and Development

Commission	31
This Country's Most Expensive Light	
Water Reactor Safety Test Facility (Report)	030
U.S. Nuclear Non-Proliferation Policy	
(Report)	245
Office of Emergency Preparedness	
Information on the Proposed Alaska	
Oil Papeline (Report)	074
Office of Monogement and Budget	
Amendment of the Federal Energy Administration Act of 1974 and the	
Estension of its Expiration Date	
(Letter)	173
The Energy Information Ass, S 1864 (Testenory)	176
Outer Continental Shelf Sale #35:	
Problems Selecting and Evaluating Land to Loope (Report)	201
Cane to Date (Adden)	231
Okieheng	
Office of Petroleum Allocation The Administration of the Petroleum	
Set-Aside Program by State Energy	
Offices (Repart)	122
Organization for Economic	
Cooperation and Development Issues Related to Porcign Sources of	
Oil for the United States (Report)	235
A Summery of European Views on De-	
pendency of the Proc World on Mid- die East Oil (Report)	
did East Oil (Migory)	234
Organization of Petroleum	
Exporting Countries	
Economic Implications of Corront	
World Cit Prices (Sing) mudgi	237
Issues Related to Foreign Sources of Oil for the United States (Report)	225
A Summery of Resources Views on De-	
personacy of the Free World on Mid.	
die Baat Oil (Report)	234
Pocific Gas and Electric Co.	
Valley Project (Tandesang)	101
Petroleum Tank Lines	
Pedecal Energy Administration's Ac- tions on Allocation and Pricing of	
Fuel (Report)	116
Potomoc Electric Power Co.	
Requested Utility Rate Increase by the	
Potomac Electric Power Company (Repart)	127
	/
Professional Audit Review Team	
ganization, and National Energy Goals (Report)	
	183

Energy Digest SEPTEMBER 1977

Offices (Report)

Energy Reorganization Legislation (Testmony)	184
Project Manogement Corp. Comments on Energy Research and Development Administration's Proposed Arrangement for the Clinch River Breeder Roscier Dessentation Plant Project (Re- pert)	Date
Cost and Scholule Estimates for the Nation's First Laguad Metal Fast Brooker Reactor Demonstration Powerplan (Report)	047
The Energy Research and Develop- setel Administration's Proposed Contract with Project Minagement Corporation, Commonwealth Edu- sion, and the Temeston Valley Au- thonity (Report)	056
Purther Commons on Atomic Energy Commission's Proposed Arrango- ment for the Liquid Motal Past Britefer Renter Demonstration	
Proposel (Report) Proposed Changes to the Atomic En- orgy Commission's Arrangement for Carrying Ost the Liquid Menal Past Breeder Restor Damostration	633
Project (Report) The Proposed Contract for the Clittch River Brooder Reactor Project (Tes-	032
(heory)	058
Rural Electrification Administration How the Federal Government Partne- pares in Activities Affecting the En- ergy Resources of the United States (Report)	098
Survey of Federal and Electric Utility Prosurements of Power Equipment (Report)	162
Securities and Exchange Commission	
Importance of Financial Data in Ilval- unting Pedaral Energy Programs (Speech)	144
Receipt and Coordination of Natural Gas Reserve Data (Report) Requests to Regulatory Ageneses by	078
Oil Companies for Deviations from Standard Procedures (Report)	148
Smoll Business Administration Effects of a Change in Size Standard for Small Business Petroleum Reflo- ces (Report)	149
Southeastern Power Administration Southeastern Federal Power Program -Pinantisl Management and Pro- gram Operations (Report)	174
Southwestern Power Administration Pederal Hydroelectric Plants Can In- crease Power Sales (Report) Power Factor Requirements Imposed	201
by Federal Power-Marketing Agen- cies as their Outomers (Letter) Revocues and Casta Allocated to	204
Power Operations at Multiple-Pur- pose Projects in the Southwestern Reduct Reserver Switzern (Reserver)	096

Standord Oil Co., Inc. Servey of Pridesturens on Exploration, Development and Delivery of Alas- ion Oil Market (Report)	107
Sun Oil Ce. Suppliers' Compliance with Allocation and Price Regulations (Report)	109
Tennessee Volley Authority Belofostic Nuclear Pisst (Staff multip Bookkeeping Syness Contents on Energy Research and Development Mitualization's Proposed Arrangement for the Clinik Rive Breeder Researce	054 420
Descentinian Place Propert (Re- pin) Cost and Schotzle Extension for the Nation's Past Liquid Metal Past Scooler Rosetor Deconstruction	944
Powerplane (Ropert) Ontainent of Electric Power Service by the Tensensee Valley Authority (Report)	047
The Energy Research and Develop- ment Adressistantion's Proposed Content with Project Management Corporation, Coconconvesith Edi- sen, and the Tennessee Valley Au- thenty (Report)	056
Parther Comments on Atomic Energy Commission's Proposed Arrange- ment for the Liquid Monal Pass Breefer Reactor Demonstration Project (Report)	033
How the Pederal Government Partici- patts in Activities Affecting the En- orgy Resources of the United States (Report)	098
Information on Selected Aspects of the Fower Operations of Tetracence Val- ley Arthonity (Report) Dypottunistics for Improvements in Re-	167
clearing Strip-Minod Lands under Coal Parchase Contracts (Report) Power Production at Enteral Dama	092
Could like Insertioned by Moderniching Tarbines and Generators (Report) Proposed Changes to the Attende En- ergy Commission's Armingement for Carrying Chat the Liquid Metal Pisat Breeder Retector Demonstration	205
Project (Report) The Proposed Contract for the Clinch River Breeder Reactor Project (Ter-	032
issues Repayment Requirements of the Pad- cral Investment in the Temessos Valley Authority's Electric Power	056
System (Report Sequeys): Nuclear Pient (Soff andy) Survey of Poderal and Biotro: Utility Processments of Power Equipocess (Report)	099 043 342
Texoto, Int. Wolation of Colling Prices in a Defense Parl Supply Center Sale (Report)	129
TRW, Int. Contracting Oct Basic Planning and Management Program Panotions (Report)	<b>685</b>

	United States Tariff Commission Statistical Data on Petroleum and Pe-	
189	teoleum Products (Report)	079
109	Urosium Invictment Associates Comments on Selected Aspects of the Administratore's Proposal for Gov- eroment Assesses to Private	
	Uranum Enrichment Geaups (Re- port) The Evaluation of the Administration's	145
154 120	Proposal for Government Assat- ance to Private Unsatem Eartch- mast Greece (Testassas)	052
	Evaluation of the Admensionless's Proposal for Government Assau- ance to Private Unnaum Enroh- ment Groups (Report)	134
44		
47	Utah Agrossment between the Scoretary of the Interface and Officials of the State of Utah Pertaking to Off Shale	
17	Leases (Letter)	209
	Virginia	
	Office of Petreleum Allecetion	
66	The Administration of the Petroleum Set-Atida Program by State Energy Offices (Report)	122
33	Virgin Islands Funds Credited to the Account of the Virgue Islands for Refunds from Im- part Lotense Fees (Report)	124
<b>9</b> 8	World Wildlife Fund, Fourth International Congress, San	
67	Francisco, CA On Conservation and Innovation (Speeck)	029
92		
05		
22		
56		
19 13		
~		
12		

Energy Digest SEPTEMBER 1977

s s 5

# LAW/AUTHORITY INDEX

Includes entries under the law, or other statutory or nonstatutory authority, referenced in the citations and appendices. Entries are grouped under the following headings;

Law Na Law No		U.S. Code Miscellaneous Author		U.S. Statutes-at-Large	
Law/Authority		Sample entry:			
Tite	85 1	al Zone Management Act of amended The Coastal Zone Management gram: An Uncertain Future /R	Pro-		ber
Law Name Administrative Procedure Act Information on Centain Od and Gas Is- dustry Oversight Responsibilities (Re- port)	105	Aronic Energy Act of 1954 Allocation of Urmiers Enrohment Ser- vices to Paol Foreign and Denersie Nuclear Rescers (Aport) Certain Activent That Chin Be Taken to Help Engowy This Netlock Urmiers Picture (Report)	238 051	Atomic Energy Act of 1974, os ummided Improverseois Needed in the Program for the Protection of Special Nuclear Material (Report)	034
Aleskan Vessel Troffle Regulation Act of 1977 Survey of Publications on Esploration, Development and Delivery of Alas- kan Oll Market (Report)	189	Development of Intengency Relation- ships in the Regulation of Nuclear Materials and Facilities (Report) Progress and Problems in Developing Nuclear and Debar Esperimental Techniques for Recovering Natural Gis in the Receter Materian Acta (Re-	055	Bonnsville Projest Act Pacific Northvess Hydro-Thermal Power Program—A Regional Ap- proach to Meeting Eletime Power Re- quitermais (Report)	141
Alaska Statubaed Act Followup Review of the Naval Pe- teoleum Reserves (Report) Anti-Daficiancy Act	230	jori) Role of the International Atomic En- ergy Agency in Sulguarding Nuclear Material (Aspect) Selected Aspecti of Nuclear Power- plant Reliability and Economics (Re-	077 240 050	Clean Air Act, as amended Federal Coal-Lealing Progents of the Department of the Interner (Report Role of Federal Coal Restaurces in Monthing Energy Coals North to be Determined and the Leading Process Immerred (Resort)	221 225
Southeastern Foderal Power Program - Pinancual Management and Program Operations (Report)	174	post) U.S. Financial Assusance in the Devel- opment of Foreign Nuclear Energy Programs (Report)	239	Caustol Zone Environmental Act of 1975	
Anned Services Procurament Act of 1947 Management of and Pines for the Naval Potroloum Reserves (Report)	227	Asemic Energy Act of 1954, as omended Comment on Selected Aspects of the Administration's Proposal for Gov- enament Assistance to Private Unablem Enclotueal Groups (Reserv)		Development of the Dater Confinential Shelf Featil Facil Resources (The dimany)	215
Abomic Energy Act Assessment of United States and Inter- national Castrols over the Recolul Uses of Nuclear Energy (Report)	247	Evaluation of the Athribustration's Proposal for Government Atalianance to Provate Urmhum Enrichment Groups (Report)	145	The Coostal Zone Management Act According in further to the Topology Presenting Infurtherative in Eastly Development Access of the Western Sister (Speeck)	(18)
Atomic Energy Act, os amended Contractis on Prograssi Legislation io Change Basis for Government Change for Uranium Enrickenent. Services (Report)	131	Proposed Agreements for Cooperation with Other Nations on Assenie En- 9989 Proposed Dutribution of Spotial Na- clear Materials Proposed Rovisions to the Celtraria and Contracts for Uniview References	304 203	Coastel Zene Monogement Act Amendments of 1976 (Digesi of Lew)	469
Atomic Energy Act of 1946 Role of the International Atomic Br- ergy Agency in Safeguarding Nuclear Meterial (Report)	240	Contracts for Universit Letterment Services (Report) Protocoling Special Nuclear Material In Transit: Improvements Made and Ex- isting Problems (Report)	097 035	Coastal Zone Management Act of 1972 The Coastal Zone Management Pro- gram An Uncertain Future (Report)	187

Ah

#### Low Name

Financing Infrastructure at Fourgy De- velopment: Areas of the Western States (Speech)	
Issues in Lessing the Atlantic Oaler Continental Shell (Texturenty)	21
National Docan Policy Study (Tes- tomorp)	21
Report to the Congress on Costill Zone Management	25
Colorada Rivar Basin Projett Act of 1968 Prolitens in Santifying, Developing, and Using Geothermal Resources (Report)	19
Congressional Budget Act of 1974 Comment on Selected Aspects of the Adressminiton's Perpead for Gev- erningi Assessible to Private Unseen Exchanges Groups (Appro)	14
Congressional Budget Act of 1974, titles I-IX	
An Evaluation of Proposed Federal As- sistance for Financing Commercial- miser of Emerging Energy Technologies (Report)	15
Definite Production Act Tasas-Alaska Cil PipelineProgress of Construction through November 1975 (Arport)	084
Defense Production Act of 1950 Energy Dea Collecton in the Federal Covernment (Danwarg) Processment of Foreign and Domesic	157
Petroleum by Department of Defense (Report)	091
Review of Compliants Concerning the Mandatory Pergoleum Allocation Program and the Regulation of Pe-	
troleurs Pricing (Report) Violation of Coltrag Prices is a Defense	102
Feel Supply Center Sale (Report)	128
Defense Production Act of 1950, es emended Legalay of Prasing Gasclese Raticeing	
Coupons by Federal Energy Admenis- tration (Lense)	103
Deportmant of Energy Organization Act	
Bargy Policy Decementsking, Organ- mation, and National Barryy Goals (Report)	193
Department of the Interior and Rolated Agencias Appropriation Act of 1975	
Plan for Construction of a Magnetaby- drodynamics Test Facility in Mon- man (Report)	086
Economic Stabilization Act of 1970 Review of Compliants Concerning the Mandacery Pressbarn Aflocation Frogram and the Regulation of Pe-	
tolean Pricing (Report)	102

**Emergency Energy Act** Legebty of Printing Galotese Retioning Chemans by Federal Eastry Admittitration (Lener) 103 Emergency Highway Energy Conservation Act 460 Emergency Network Ges Act of 1977 *a*2 Emergency Petroleum Allecation Act 639 The Administration of the Potroleum Set-Asido Program by State Energy Offices (Report) 122 Enorgy Data Colloction in the Federal 157 Government (Tennergi Exemption of a Refined Petroleum Pro-Allocation and Price Regulations 201 Pederal Energy Administration Efforts to Audit Fuel Oil Supplies of Mayor Utility Commands (Project Unites) 126 Federal Energy Administration's Ef-forts to Audat Domestic Crucic Oil Producers (Report) 122 Gulf Oil Corperation's "Deuble Dipping" on Crude Dil Prodest Costs 136 Petroleum Market Shares 284 Problems in Regulating Natural Gen Prices by the Foderal Energy Administration (Report) 139 Problems in the Pericral Energy Admustration's Compliance and Erforcement Effort (Report) 118 Problems in the Federal Energy Office's Implementation of Emergency Petrolean Allocaton Programs at Regional and State Levels (Report) 108

157

Problems of Independent Reliners and Gassline Retaiers (Report) Procurement of Porcign and Domestic Petroleum by Department of Defense (Report)

Economic Stabilization Att of 1970, os emended Energy Data Collection is the Federal

Government (Testionage)

(Dugest of Law)

(Digest of Law) 145

> of 1973 (Digest of Law)

> > (Report)

(Report)

213 212

151

Review of Complaints Concerning the Mandstory Petrolean Allocation Program and the Regulation of Patroleum Pricing (Report)

Energy Conservation and Production Act (Digest of Law)
The Changing Role of the General Ac- counting Office in Energy Informa- tion and Data Programs (Speech)
Demestic Energy Resource and Re- serve Esomates-Uses, Lincitations, and Needed Data (Report)

471 284

233

(Scench)

Fallowup Review of the Navel Po- troleum Reserves (Report)	22
Energy Independence Authority Act of 1975	
Developing and Commercializing En- ergy Technology (Testworp)	145
Energy Information Act Comments on the Energy Information Act (Letter)	170
The Energy Information Act, S 1864 (Technolog)	174
Improvements Still Noeded in Federal Energy Data Collection, Auslysis, and Reporting (Report)	182
Energy Inventory Act of 1974 Proposed Energy Inventory Act of 1974 (Letter)	160
Energy Policy Act of 1973 Antion Needed to Inpurov Pederal Ef- forts in Coffecting, Analyzing, and Reporting Energy One ( <i>Keperi</i> ) A 2011 to Entskinh a National Energy Information System ( <i>Tennovey</i> )	159 158
Energy Policy and Conservation Act (Deput of Law) A Bill to Extend the Poleral Decryy Administration Act of 1974 (Ter-	468
amanji	179
Domestic Energy Resource and Re- serve Estemates-Uses, Linestations, and Needed Data (Report)	233
Employre Disalosures under the En- orgy Policy and Conservation Act	265
Energy Conservation at Government Field Installations: Progress and Problems (Report)	028
Energy Conservation Fatancing (Ter- manuf	027
The Energy Information Act, S. 1864 (Temberous)	176
Energy Policy Occisionmaking, Organ- itation, and National Energy Goals (Report)	193
An Breitantice of Proposed Federal As- solution of Brinnering Commercent batton of Brinnering Beorgy Testinologies (Report) Federal Assistance to State and Local Governments in Developing and Ad-	151
ministering Energy Programs (Report)	143
Pinancial Disclosures by Employees Performing Functions under Energy Policy and Conservation Act	287
Foture Hnergy Demand (Speech)	175
GAO's Energy Role (Speech) Gulf Dd Corporation's "Double Dip- ping" on Crude Oil Product Costa	137
(Report) Importance of Pinanoial Oata in Eva-	138

Energy Independence Act of 1975

#### w / Authority Indax

clear Fuel Services, Incorporated, Re-

processing Plant at West Valley, New

Energy Research and Development Administration of Certain Foul Entry Pindle (Lann) The Liquid Metal Fast Breeder Ressort-Promises and Uncertainties (Staff study) Management and Paulong Aspects of Three Normoleius Energy Respective

Development, and Demonstream Subprograms (Report) National Energy Policy: An Agenda for Analyse (Report) National Standards Needot for Resdenial Energy Conservation (Report)

Natural Oas Shorings The Role of Imported Liquefied Natural Gas (Assort)

Deporturities to Improve Planning for Salar Elsergy Research and Development (Report) Problems in Identifying, Developing, and Using Goothermal Resources (Report) Reducing Nuclear Powerplans Lead-

uner Many Obtacies Remain (Report) Report to the President by the Nuclear

Sequeyah Nuclear Plant (Shiff shaly)

Security of Absormal Occurrences Reported to the Nuclear Regulatory Cormission This Country's Most Expensive Light Water Reactory Sofety Test Facility (Report)

Emergy Reorganization Act of 1974, § 108 Foderal Efforts to Improve the Pael Economy of New Astemphiles (Re-

Energy Supply Act of 1975 Development of the Outer Continueal Shelf Family Fuel Resources (Tenawarg)

Energy Supply and Environmental Coordination Act of 1974

Energy Information Reparted to Can-

gress as Required by Pablic Law 93-319 Improvements Still Needed in Pederal

Energy Data Collection, Analysis, and Reporting (Report)

National Energy Policy: An Agenda for

(Digen of Law) Domestic Energy Resource and Reserve Estimates-Usu, Laritations, and Needed Data (Record)

Applysis (Report)

40 Econs acrit

Regulatory Constitution

.

31

٥.

01

23

182

York (Report) The Leastliky of the Reported Lies by the

mprovements Still Needed in Federal Emergy Data Collection, Analysis, and Reporting (Report)	182
ndustrisi Energy Efficiency Program	196
issues Needing Attention in Develop- ing the Strategic Petroleum Reserve (Report)	<b>c90</b>
Dermon of State Energy Conserva- tion Plana	295
rogress of Energy Conservation Pro- gram for Consumer Products Other Then Automobiles	294
teview of Average Fuel Economy Standards under Thie V of Motor Vehicle Information and Cost Savings Act	278
Review of the Federal Energy Adminis- tratice's Advisory Committee (Re- port)	163
Review of Voluceary Agreement and Plan of Action To implement the In- ternational Energy Program	
tornational Energy Program kratogic Petroletan Reserve Plan	276 289
rgy Policy and Conservation Act	
1975	
he Changing Role of the Deseral Ac- counting Office in Energy Informa- tion and Data Programs (Speech)	185
Tauncing for Commercial-Sized Democritutions of Energy Torbinalo- gies (Tenonony)	
gies (Tentreory) allaies and Programs Being Developed	141
villoies and Programs Being Developed To Expand Processentent of Products Containing Rocycled Materials (Re- pari)	023
my Passaniustian Ast of 1076	
gy Reorganization Act of 1974 Depart of Law) assumed of District States and Inter-	465
gy Reorgonization Act of 1974 Depart of Low) anonement of United States and Inter- national Constels over the Percetti Unios of Neuter Energy (Report)	455 247
Deptst of Low) anexament of United States and Inter- national Controls over the Peaceful Usos of Nuclear Energy (Report) annuerus on the Admenistration's Propaged Switholic Peals Contrar-	247
Depart of Low) anexameted United States and Inter- national Coastels over the Pescelli Unos of Neclear Energy (Report) commercs on the Administration's Proposed Synthetic Fields Converg- chiltention Trayana (Report) contractula Coastensis, and	
Depts of Low) assessment of United States and Inter- national Countids over the Pesentid United Nuclear Energy (Report) connects on the Adventistement' Propaget Symbolic Field Connec- cialization Program (Report) contracting Out Basic Flaming and Management Program Functions (Re- port)	247
Depty of Low) assessment of United States and Inter- national Casards over the Pascefil Uses of Nadars Energy (Report) annaeros on the Administratory Proparad Synthelio Facia Conster- cialization Pragana (Report) contracting, On Baso Planning and Management Pragram Functions (Re- port) out and Seledder Bisimous for the Nationy, Fin-Linded Metal, Past	247
Dagsti ef Juri) seasantere of United States and Into- national Coastals over the Paceful loss of Neislar Energy (Chayou) loss of Neislar Energy (Chayou) hoppaned Synthelin Feisla Conten- cialization Pragana (Dagoed Outrecht) Can Beino Farinty and Managarete Program Fusiblers (Ro- pert) Stoches Ladoe Harinty and Stoches Ladoe Harinty Fast Beneder States Demonstration Pro- regulance Outrecht Contension Pro- regulance Relations Patheres (Dagoed)	247
Dapast of low) sensement of Unived States and Inter- sensement of Unived States and Inter- Union of Nesiant Energy (Roywi) connects on the Admenistrences instantion Fragman (Daport) contracting (Dat Basic Floring and height and Programmer Floring) Registration Fragman (Daport) contracting (Data Basic Floring and Bender Kaster Demonstration Rev- responses and the States (Data Basic) Bender Kaster Demonstration Rev- responses (Data Basic) Revention Floring (Lange Meth Floring Bender Kaster Demonstration Rev- responses on the Registress of Nester- blore nu the Registress of Nester- blorena and Englishing (Royvi)	247 140 088
Spect of Low) semant of Union Barras and Lance distance of Union Barras and Lance Union of Neukar Descar, Olayon Samaras and A. Antwirtsmark Propagated Symbols Pacial Contention Samaras and Samaras and Samaras Samaras and Samaras and Samaras and Samaras and Samaras Samaras and Samaras	247 140 088 047
Depth of Introl suscement of Vieweld States and Inco- national Constants over the Neurality Constants over the Neurality States and States and States and States States and States and States and States Constants and States and States and States and States and States States and States and States States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and St	247 140 088 047 055
Spect of LON) measured C Unice and Factor and Internet C Unice of Factor and Unice of Neukari Energy (Report) measures on the Advantagement definition frequence (Report) measures (Internet Factor) Measurements (Interene Factor) Measurements (Internet Factor) Measurements (Inte	247 140 038 047 055 233
Sign: 41 (201) Sign: 41 (201) Sign: 41 (201) Sign: 42 (201)	247 140 038 047 055 223 004
Spect of LOW) Spect of LOW) Spectra Course and Low and Low and Low of Neutral Every (Spect) Uses of Neutral Every (Spect) delaysing fragment (Report) accurates, G. C. Barro, Farring, and pert) and and the spectra Course of Low pert) and Antipert (Low Courses) pert) and Antipert (Low Courses) perting perting (Low Courses) perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting perting per	247 140 038 047 055 223 055

#### Low None

,	AllC Charman's Report, "The Na- tion's Energy Future" (Report)	193
,	Export Administration Act of 1969 Assessment of Lonted States and Inter- national Councils over the Pescential	
9	Uses of Nuclear Energy (Report)	247
,	Export-Import Bank Amondments of 1974 Submission of U.S.S.R. Energy-Related	
	Transactions for Congressional Re-	280
9	Expert Reorganization Act of 1976 Development of Interagency Relation-	
•	ships in the Regulation of Nuclear Moterials and Facilities (Report)	655
2	Padarol Advisory Committee Act of 1972	
,	Review of the Federal Energy Adminis- tuning's Advasory Committees (Re- pert)	183
,	Paderol Cool Leosing Amendments Act of 1975	
5	(Dece of Law)	470
3	Domentic Energy Resource and Re-	
	serve EstimatesUses, Limitation, and Needed Data (Report) Energy Policy Decisionmaking, Organ-	233
	mation, and National Energy Goals (Report)	193
	Financing Infrastructure in Energy Development Arous of the Western States (Speech)	641
	Fadarol Cool Mine Health and Sofety Act of 1969	
,	Curtailment of Electric Power Service by the Terressert Valley Authority (Report)	117
	Energy Reorganization Legislation (Teatmony) How the Federal Generation Partici-	194
,	pates in Activities Affecting the En- ergy Resources of the United States (Report)	008
	Faderoi Columbia Rivar Pewer	
	System	
2	Concellulated Pinancial Statement of the Pederal Columbia River Pewer System	274
,		
	Federal Energy Administration Act	
,	of 1974 (Digest of Low)	461
	Action Proposed Concerning Conflict	

The Administration of the Petroleum

Offices (Report)

Set-Aside Program by State Energy

Environmental Policy Act of 1969

Federol Energy Ac

Appendituges of the Federal Energy Ad-		Federal Energy Administration Act
envisionation Act of 1974 and the Ex- tension of the Expension Date (Leaw)		of 1974, § 12 The Federal Energy Administration's
A Bill to Extend the Pederal Energy	173	Complunce and Enforcement Activi-
Adequastration Act of 1974 (Tel- tonoing)	179	The Federal Reergy Administration's Complement and Enforcement Pro-
Certain Acroins That Cên Bê Taken 10 Help Improve This Nation's Unavern		CONCS (Tenneng) GAO's Energy Role (Speech)
Pressee (Report) The Changing Role of the General A4-	061	
Changing Role of the General Ad- counting Office in Energy Informa- such and Data Products (Speck)	186	Federal Beargy Administration Extension Ast
Contracts on the Energy Information Act (Jener)	170	Energy Corotronico Financing (Teo-
Damping Energy Resource and Re- serve Estimation-Dice, Littination5,	233	
and Needed Data (Report) The Economic Import of Entrary Ac-	233	Federal Energy Development Impact Assistance Act of 1976
nota	253	Developing and Contractifizing So-
The Energy Information Act, \$ 1864 (Technoord	176	ergy Technology (Teasway)
The Expansion of Cos) (Report)	244	
Federal Assistance to Scate and Local		
Governments in Developing and Ad-		Federal Non-Nuclear Evergy
mentioning Energy Programs (Report)	10	<b>Research and Development Act</b>
Federal Energy Administration Attenti		of 1974
Report to the President and Con-	190	(Digest of Law)
Federal Energy Adversaration Effects	190	Comments on the Administration's Proposed Synthetic Feels Continer-
to Auda Pael Oil Supplies of Major		culitation Program (Report)
Utility Companies (Project Utility) (Report)	126	Federal and State Solar Energy Re- soarch, Development, and Damon-
The Federal Entry Administration	120	stration Artigrates (Report)
Quarterly Separa on Private Giner-		Improvements Needed in the Federal
anoti and Redress Federal Energy Admanstration's Ef-	286	Enhanced Oil and Gas Recovery Re- search, Development, and Domon-
form to Audit Deetestus Crude Gal		station Program (Report)
Probacci (Report) Federal Energy Management Program	133	The Legality of the Reported Use by the
Asswei Report	293	Energy Research and Development Afteinestration of Certain Poind En-
Galf On Corporation's "Double Dip- ping" at Crude Od Product Costs		etgy Fends (Leaver)
(Repvi)	138	National Plan for Energy Research, Development and Demonstration
Insprovenants Stall Needed as Federal		Pitrating and Analysis
Energy Data Collection, Analysis, and Reporting (Report)	162	Proposed Establishment of Joint Feder-
Netoatal Energy Policy: An Arcada for	194	al-Indentry Nozsuciene Corpora-
Analysis (Report)	191	Report on ERDA's Normaelear Activi-
Netural Gas Shortage: The Role of Int- ported Lopefied Natural Gas (Report)		tics
	241	Ways to Strengthen Congressional Con- trol of Benryy Construction Projects
Need for the Federal Power Commis- sion to Evaluate the Effectiveness of		Other Than Nuclear (Report)
the Natural Gas Curationent Policy		interest in the second sectors
(Report)	130	Fadarol Power Act
Problems in the Federal Beergy Ad- management's Compliance and Re-		Need for the Pederal Power Courris-
forenest Effort (Report)	118	sion to Evolute the Effectiveness of the Naturel Gas Curtailment Policy
Problems of independent Refiners and		(Report)
Gatches Retailers (Report) Review of the Federal Basegy Aductio-	121	
station's Advisory Corpetitions /Re-		Pederol Power Act, as amended
part)	183	Management Improvements Needed in the Federal Power Commission's
		Processing of Electric-Rate-Increase
edarol Energy Administration Act		Cases (Report)
of 1974, § 5(b)(11)		
Problems in Regulating Natural Gas Prices by the Paderal Energy Ad-		Pederal Power Act of 1935 Problems in Licensing Nydroelectric
minutration (Report)	139	Projects (Report)

	Southeastern Federal Power Program- -Financial Management and Program Operations (Report)	174
119		
125 177	Federal Power Act, 1 202(c) Cutalizzeni of Elezine Power Service by the Teanessee Valley Authority (Report)	112
027	Federal Power Act 5 303 Access of the Poleral Power Coremis- sons to Bureau of Reclamation Re- code to Busine Compliance with the Pederal Power Act. (Listur)	143
142	Fadarol Property and Administrative Services Act of 1940 Polyces and Program Being Developed To Expand Procement of Products Continuing Royeliol Materials (Re- pert)	623
457	Federal Proparty and Administrative Services Act of 1949, as annanded Requested Utility Rate Incruise by the Posterier Biotro Rower Company	
140	(Report)	127
200	Federal Regulation of Labbying Act Evaluation of the Publication and Dis- tribution of "Steading Light on Facta about Nectors Energy" (Report)	054
155	Federal Water Pollution Cantrol Act Interved Inspection and Registrian Could Reduce the Possibility of Oil- spills on the Outer Contenents Shelf	
057	(Report)	100
305	Federal Water Pollution Control Act Amendments of 1972 Problems Caused by Cost Mining New	
315	Redoral Reservair Projects (Report) Reducing Nuclear Powerplant Lead-	075
310	times. Many Obstacles Remain (Re-	049
192	Federal Water Polistics Control Act, as analysis Recovery of Reposes from Creanup and Investigation of Oil Spith (Lever)	
		107
130	Federal Water Power Act (Digon of Law) Domesia Energy Resource and Re-	456
	serve Estimation-Uses, Limitations, and Needed Data (Report) Need for Improving the Regulation of the Natural Ona Industry and Mon-	233
153	agenomi of Internal Operations (Ar- pert)	110
	Problems in Licensing Hydroelactric Projects (Report)	132
132	Reports of Costs of Certain Structures on Nongovernment Waters	298

#### Energy Digest SEPTEMBER 1977

Flood Control Act of 1944 Revenues and Costa Aliosated to Power Operations at Multiple-Perpose Peo- jects as the Southwestern Federal Power System (Report)	095	Housing and Community Development Act of 1974 Report on Solar Energy Domostra- tion
Southeastern Foleral Power Program- Pleaseal Management and Program Operations (Report)	174	Independent Offices Appropriations Act of 1952 Evaluation of the Publication and Dis- tribution of "Shedding Light on Pacts
Foreign Assistence Act of 1974 U.S. Ferancial Assessment in the Devel- opment of Poreign Nucleon Energy Programs (Report)	239	shout Nuclear Energy" (Report) Indian Reregonization Act of 1934 Indian Natural Resources-Part II Cost, GR, and Gas-Better Manace-
Foreign Investment Study Act of 1974 Certain Actions That Can B: Taken to		ment Can improve Development and Increase Income and Employment (Report)
Help Improve This Nation's Uranium Pacture (Report)	061	Indian Self-Determination and Education Assistance Act of 1975 Indian Natural Resource—Part II:
Frankers of Information Act Can the U.S. Breader Relator Develop- ment Program Bo Accelerated by Us- ing Portign Technology? (Report)	245	Coal, Oil, and GasBetter Manage- ment Can Improve Development and Instrume Income and Employment (Report)
Federal Coal-Leasing Program of the Department of the Interior (Report) International Cooperation in Energy	221	Interstate Commerce Act Protedutes for Evaluating Reasonable-
Research and Development (72s- through	246	ness of Petroleum Pipeline Rates Need Improving (Report)
Geothermal Energy Research, Development, and Domonstration		Mineral Lands Act of 1920, as amended
Act of 1974 (Digest of Law) Activities of Each Goethermal Damon-	454	Administration of Regulations for Sur- face Exploration, Milling, and Reda- mation of Public and Indian Coal
stration Project Activities of the Geothermal Coordina-	307	Lands (Report)
tion and Management Project Financial Report on the Goothermal Resources Development Fund	306 309	Mineral Londs Leasing Act Leasing of Minerals on Public Lands (Report)
The Liquid Metal Fast Breeder Resetor. Promises and Uncertainstles (Staff multi)	047	Dil and Gas Loasing on Poderal Lands (Report)
Netional Energy Policy: An Agenda for Analysis (Report)	191	Provisions of Navago and Hopi Coal Leanus (Report) Role of Peteral Coal Resources in
Problems in Identifying, Developing, and Using Goothermal Resources (Report)	199	Monting Energy Goals Needs to be Determined and the Leasing Process Improved (Report)
Goothsemal Steam Act of 1970 How the Federal Government Partici- paties in Activities Affecting the Er- ergy Resources of the United States (Report)	098	Mineral Leasing Act Department of the Interior's Vorus of Comments on Administration of Regulations for Surface Exploration, Mining, and Reclamation of Public
Problems in Identifying, Developing, and Using Geothermal Resources (Report)	199	and Indian Coal Lands (Report) Pederal Coal-Lassing Program of the Department of the Interior (Report)
Government Corporation Control Act		Further Attion Needed on Recommen- detions for Improving the Adminis- tration of Poderal Coal-Lowing Program (Report)
Future Structure of the Unation En- richment Industry (Teatmony)	037	Contraction in the second
Pacific Northwest Hydro-Thormal Power Program A Regional Ap- provah to Meeting Electric Power Re- quirements (Report)	161	Mineral Leasing Act for Acquired Lends Administration of Regulations for Sur- face Exploration, Mining, and Reds-
Helium Act		mation of Public and Indian Coal Lands (Report) Conservation Division Task Porce Re-

port on the Onshare Lease Manage-

263

044

223

094

092

210

207

226

221

917

093

Report to the Congress on Matters Con-	
tained in the Hellom Act	268

ment Program Study for the U.S. Geological Survey	245
Onihore Leave Management Program Study for the U.S. Geological Survey	
	250
Review of Royalty Accounting System	
for Onshore Gil and Gur Leases	253
Role of Foderal Cost Resources in Monting Energy Oasts Needs to be	
Monting Energy Geals Needs to be	
Dotermined and the Leasurg Process	
Improved (Report)	226
Royalty Accounting System Study of	
Solid Mineral Leasing Activities	254
Mineral Leasing Act of 1920	
Development of Pelessi Cosi Re-	
sources (Tastinany)	222
Patancing Infrastructure in Energy	
Development Areas of the Western	
States (Speech)	081
Survey of Pebheations on Exploration,	
Development and Delivery of Alas-	
kan Oll Market (Report)	188
and an end of the property	
Mineral Leasing Act of 1920, as	
amended	
Conservation Division Task Perce Re-	
part on the Onshore Lease Manage-	
ment Program Study for the U.S.	
Geological Survey	249
Onshore Lesse Management Program Study for the U.S. Geological Survey	
Study for the U.S. Goolegical Survey	
	250
Review of Royatty Accounting System	
for Oashore Oil and Gas Leases	253
Royalty Accounting System Study of	
Solid Mineral Leasing Activities	254
Mineral Leasing Act Revision of	
1960 Compensatory Royalty Agreements	272
Compensately Kojaky Aprenetas	100
Mining and Minerals Policy Act of	
1970	
Domestic Energy Resource and Ro-	
serve EstimatesUses, Limitations,	
and Needed Data (Report)	233
Mining and Minerals Policy	267
sening the statents roley	20/
Mining Law of 1872	
Conservation Division Task Force Ro-	
port on the Omhore Lanse Manage-	
ment Program Study for the U.S.	
Deological Survey	247
Onshore Lease Management Program	
Study for the U.S. Geological Survey	
	250
Reverse of Revelty Accounting System	
for Onshore Off and Gas Leases	257
Royalty Accounting System Study of	
Solid Migeral Leasing Activities	254
www.migeral Leaning /convides	
Motor Vehicle Information and Cost	
Servings Act	
Review of Average Fael Boonceny	

Standards under Title V of Motor

Vehicle Information and Cost Savings Ant

National Ascensults and Space Act of 1958, 5 203 Composition H R 11212 43rd Catgren, a Bill to Further Research, Development, and Commercial Cenonstratoges at Geothermal En-104 ergy (Letter) Notional Energy Production Baced Act of 1975 Development of the Outer Continental Natural Gas Act of 1938 Shelf Fossil Fuel Resources (Tep-215 Assent National Environmental Policy Act Department of the Internor's Views of Convients on Administration of Regulations for Surface Excloration. Merry, and Rechmanne of Public and Indian Coal Lands (Report) 093 Further Annon Needed on Recommen-Natural Gas Act of 1538, as dations for Improving the Administraisen of Federal Coat-Lessen Program (Report) 217 National Environmental Policy Act of 1967 Nuclear Regulatory Community Pro-Natural Gas Pipeline Safety Act of state for Evaluations Environmental longacts of Construction and Operatota of Nuclear Propensiaces (Report) 051 Notional Environmental Policy .* .t Administration of Regulations for Surface Excloration, Manua, and Reclamotion of Public and Jadean Coal Lands (Report) ..... National Grean Policy Study (Tin-Reducing Noticar Powersiani Landerner Many Obstates Rennen /Reount Survey of Pablications on Evaluation, Development and Delivery of Alusken Ol Market (Report) National Science Foundation Act of 1950, § 3-4 Comments up H R 11212, 93rd Cangreis, a Bill to Parther Research, Development, and Commercial Ormomtrations in Geethermal Energy (Lence) 196 Notural Gas Act Actions Taken by the Federal Power Commission on Prior Recommendations Concerning Regulation of the Navasal Gas Industry and Macagement of Internal Operations (Report) 10 (Digest of Law) Domestic Energy Researce and Resave Estrates-User, Limpioners, and Needed Data (Report) 233 Effect and Operation of Interstate Compacts Relating to Natural Gas 107 Need for Improving the Regulation of the Natural Gas Industry and Manaccord of interest Operations (Re-954 113 Need for the Federal Power Commisside to Evaluate the Effectiveness of

150	Ornibus Energy and Natural Resources Reorganization Act of 1977 Energy Poley Decelormaking, Organ-	
114	ization, and National Energy Goals (Report)	193
678	Outer Continental Shelf Act of 1953 Accelerated Outer Contecntal Shelf Development (Tentwany)	219
	Outer Continental Shelf Lands Act	
172	Improved Inspection and Regulation Could Reduce the Postshinty of Od- spills on the Outer Continental Shelf (Report)	100
CRIS	Information on Certain Oil and Gas In- duatty Overaight Responsibilities (Re- port)	105
	Lessing of Menerols on Public Lands (Report)	211
141	Oil and Gas Lossing on Federal Lands (Report)	210
	Outer Commental Shell Oil and Gas Development: Introvements Needed in Determining Where to Leave and at What Dollar Value (Report)	218
97	Oster Centinensal Shelf Sole #35: Problems Selecting and Evaluating Land to Lease (Report) Outlook for Federal Gosls to Acceler-	231
	at Leasing of Oil and One Resources at Leasing of Oil and One Resources on the Oater Coefficiential Shelf (Re- port) Problems in Identifying, Developing,	214
162	ned Using Gootherneel Researces (Report)	199
170	Recovery of Expenses from Cleanup and Investigation of Oil Spills (Letter)	107
27	Reports of the Roview Committee on Safety of Oster Contractual Shelf Pp-	1.07
71	trolesim Operations to the United States Geological Survey Reports of the Work Group on OCS	251
	Safety and Pollution Centrol	252
91	Outer Continental Shelf Lands Act,	
	Followup on Centern Matters Concern- ing the Inspection and Regulation of Oster Continental Shelf Oil Opora- tions (Report)	208
50		
	Outer Continental Shelf Lands Act Amendments of 1975 Development of the Outer Continental	
45	Shelf Feasil Fuel Resources (Tea- theory)	215
52	Outer Continental Shelf Lands Act of 1953 Accelerated Outer Continental Shelf	
53	Development (Testlenory) Development of the Outer Coatinental	216
	Shelf Panni Foel Resources (Ta- timaty)	215
94	Rolands on Oater Continental Shelf Leases	26P

#### Energy Digest SEPTEMBER 1977

the Natural Gas Cartaliment Policy Report

Next for the Federal Boger Comerts

sion to improve the Regulation of the

Natural Gas Industry and Manage-

ment of its Internal Operations (Ter

Research and Coordination of Natural

Reliable Contract Sales Data Needed for Projecting Amounts of Natural Gas That Could Be Decapulated (Re-

Status and Obstacles to Commercializa-

Natural Cas Shortney The Role of Imported Lappelled Natural Gas (Report)

tation (Associ

amended

ton of Cosl Liquebetion and Gasel-

Gas Reserve Data (Report)

#### Noval Patroleum Reserve

Production Act of 1976	
Annual Report to Congress on Naval Potenteum and Oil Shale Reserves	
Exploration of National Petroleum Re- serve in Alapka	
Management of and Plans for the Naval Petrolean Reserves (Report)	
Progress of and Future Plans for Ex- ploration of National Perioleum Re-	
stree at Alaska	- 1

#### Nonsellegr Energy Research and **Development Act of 1974**

National Energy Policy: An Agonda for Analysis (Report)

#### Nuclear Fuel Assessments Act of 1975 Budgeing of Federal Pinansial Incennves for Energy Development (Tesancesi

- Comments on Selocted Aspects of the Admenistration's Proposal for Generranent Assistance to Prosta United Established Course (Report)
- Energy Research and Development Administration's Conference Plan for Mare Emichment Capacity at Pertamouth, OH (Report)
- The Resharion of the Administration's Properal for Government Assistance. to Physic Uranian Exceloreer Groups (Textmonal

a

Systemics of the Administration's Propagal for Communect Assistance to Private Untrium Baricheness Groups (Reserve

Energy Digest SEPTEMBER 1977

Outer Continental Shelf Lands Managament Act of 1975 Promotes Infrastructure in Energy Directoment Acces of the Watern		Resource Recovery Act of 1970 Policies and Programs Borg Developed To Expand Processment of Products Containing Recoved Materials (Re-		Using Solid Watte to Conserve Re- sources and to Create Energy (Report)
States (Speech)	661	Just Resource Recovery and Source Reduc- base	623	Special Energy Research and Development Appropriation Act
Permanent Tax Reduction Act of 1975 Developing and Commonweigung En- orgy Technology (Pannang)	142	ten Review of the Progress and Problems of Reviews Resourcy Since the Passage of the Resource Recovery Act of 1970 (Taximum)	279	of 1975 The Administration of the Petrolean Set-Aside Program by State Energy Officer (Report) Plane for Construction of a Magnetohy-
Price-Anderson Act, as amended Selected Aspects of Nuclear Power- plant Reliability and Economics (Re-		Using Solid Wasic to Conserve Re- sources and to Crone Energy (Report)	013	desdynamica Test Facility in Mre- taria (Report)
pen) Price-Andersen Act of 1957	950	Securities Act of 1933 Recerpt and Coordinators of Natural Gas Reserve Data (Report)	678	Supplemental Appropriations Act of 1974 Followsp Review of the Naval Pe- treteen Reserves (Report) Legatry of Admenistration Actions in
Evaluation of the Publication and Da- tribusion of "Shadtiling Light on Parts about Nuclear Energy" (Repart)	064	Securities and Exchange Act of 1934 Recept and Coordination of Natural Gis Reserve Data (Keard)	678	Printing and Storing Gas Coupees (Letter) Legabity of Printing Gasoline Rationing Coupers by Federal Energy Adminis-
Private Ownership of Special Nuclear Materials Act		on where the print	Q/8	intion (Letiss)
Proposed Revisions to the Croteria and Centracis for Ucansum Enrichment Stavices (Report)	097	Solar Energy Research Development and Demonstration Act of 1974 (Digost of Law) Activities of Solar Energy Coordination	405	Synthetic Fuels Demonstration Plents Bill Alternative Fuch for Availan (H.R. 12112) (Testimony)
Privote Ownership of Spacial Nuclear Materials Act of 1964 Comments on Proposed Legislation to Charge Basis for Government Charge		and Management Project Polecel and State Solar Energy Ro- search, Development, and Demon- stration Activities (Report)	302	Budgeing of Federal Pinaneial Incon- tives for Energy Development (Pa- anong) An Evaluation of Proposed Pederal Au-
fer Umatern Esriehment Services (Report) Selected Asports of Nusicar Power- plant Reliability and Economess (Re-	151	National Except Policy An Agenda for Analysia (Report)	191	uniance for Hearnong Commercial- intion of Emerging Energy Technologics (Textboorg)
peri) Private Ownership of Speciel	655	The Scier Heating and Croking Demonstration Act of 1974 (Deprival Las) Federal and State Solar Energy Ro-	457	Synthetic Liquid Fuels Act of 1944 Status and Obstacles to Commercializa- tion of Coal Liquidiction and Gasti- cation (Report)
Nuclear Materials Act of 1964, as amended Evaluation of the Adminuscration's		search, Development, and Demo- stration Activities (Report) The Liquid Metal Fast Becoder Reactor	200	Taylor Grazing Act, \$ 7
Proposal for Government Assustance to Provide Unitaria Envelopment Groups (Report)	124	Promises and Uscertainities (Steff audy) National Energy Policy: An Agonda for Antibutis (Scient)	04P	Agroement between the Secretary of the Interior and Officials of the State of Units Permissing to Oil Shale Leases (Lease)
Public Utility Act of 1935 Need for improving the Regulation of		Astional Program for Solar Heating and Cooling National Standards Needed for Rep-	308	Tennesses Volley Authority Act of
the Natural Gas Industry and Man- ageneric of Internal Operations (Ra- pert)	113	dential Energy Conservation (Repart) Opportunities to Improve Planning for	019	1933 Information on Sciected Aspects of the Power Operations of Tennessee Val- ity Astikouty (Report)
Public Works Appropriation Act of 1970		Solar Energy Research and Develop- ment (Report) Special Report on Solar Heating and	202	Tennessee Volley Authority Act, 5
Pacific Northwest Hydro-Thormal Power Program-A Regional Ap- proach to Moeting Blocing Power Ro-	101	Cooking Demonstration Program	264	15d Repayment Requirements of the Ped- aral Investment in the Teanesses Val- ley Anthonty's Electric Power System (Report)
quirements (Report)	ed1	Solid Waste Disposel Act of 1965 Policies and Programs Being Developed To Expand Procement of Products		Trode Act of 1974
Refuse Act of 1899 Problems Caused by Coal Mining Near Poderal Reservoir Projects (Report)	075	Contraining Recyclod Materials (Re- part) Review of the Prearess and Problems of	023	The Exponsion of Coal (Report)
Problems Caused by Coal Minung Near Foderal Reservoir Projects (Tas- Nitorn)	076	Resource Recovery Sizes the Passage of the Resource Recovery Ast of 1970 (Testment)	. 016	Trans-Alaska Authorization Act, 1 409 Review of the Information-Cathorine

# Lew Nemo

|--|--|--|--|--|--|

253

254

266

021

261

258

131

124

Pressues of the Federal Energy Ad- mandatescon (Report)	160	
Trunt-Alexkon Pipeline Act Improvements Saji Needed in Pedetal Energy Data Collectore, Analyse, and Reporting (Report)	182	¢
Trans-Alasken Pipaline Act, 1 409		3
The Energy Information Art, S 1864 (Taxtenary)	176	э
Trans-Aleska Pipeline		
Authorizotion Act (Digr-Lot Law)	458	P.L. );
Grass of Rights-of-Wey for Pepelines shrough Federal Lands	273	
Serves of Publicanons on Explorance.		R
Development and Odivery of Alas- kan Od Marker (Report)	189	R
Trans-Alaska Oal PapelancProgress of Construction through November		
1975 (Report)	084	R
freesury, Postol Service, and General Government		P.L.I
Appropriation Act of 1976		E/
Eviluation of the Publication and Os- unbeaus of "Shedding Light on Pacts		
about Nuclear Tenergy" (Report)	054	Pr
		1
Fruth In Negatieticas Act of 1962 Procedures for Evaluating Remonshie-		1
axis of Petroleum Pipekne Rates		
Need Improving (Report) Proceedings of Portuga and Damaster	094	P.L. E
Petroleum by Department of Delenso (Report)	021	
Indered	wi	
Voter Quality Improvement Act of		P.L. 8
1970 How the Pederal Government Partici-		Sel
pens in Activities Affecting the En-		
ergy Resources of the United States (Report)	098	P.L. B
		Fo
Low Number		P.L. 8 Ro
L. 66-280		-
(Digitit of Law)	456	s
Reports of Costs of Certain Structures on Nongovernment Waters	288	P.L. 8
		A4
L. 75-688 (Digest of Law)		
Diffect and Operation of Internation Com-	457	Con
pacts Relating to Natural Gas	297	Cor
		pr m
		0
		018 St

F

P

mature of Public and Indus Cost Lands (Report) Conservation Daugon Task Force Re-	073	Revers of Royalty Accounting System for Onshore Oil and Gas Leases
port on the Orabere Lease Manage- ment Program Study for the U.S. Geological Survey	249	Royalty Accounting System Study of Solid Mineral Leasing Activities
Onshore Lesse Management Program		P.L. 86-777
Study for the U.S. Geological Survey	250	Report to the Congress on Matters Con- tained in the Helson Ast
Review of Royalty Accounting System for Outshore Oil and Gas Leases	253	P.L. 87-653
Royalty Accounting System Study of Solid Mineral Lanking Activities	254	Procurement of Foreign and Domotic Petroleum by Department of Defense (Report)
P.L. 83-212		
Information on Certain Oil and Gas In- dustry Oversight Responsibilities (Re- port)	105	P.L. 87-796 Protoction of Oil Xesorves
Reference on Outer Continential Shelf	269	P.L. #7-796, § 1(10)
Reports of the Revew Commisso on Safety of Outer Continental Shall Po- troleum Operators to the United		Quarterly Report of Profuotion from the Naval Potroleum and Oil Shalo Reserves
States Geological Survey	251	
Reports of the Work Group on OCS Safety and Pollation Control P.L. 83-703	252	P.1. 88-489 Comments on Proposed Legislation to Change Basis for Ovvenment Charge for Unsnium Enrichment Services
Evelopion of the Admissuration's		(Report)
Proposal for Government Assistance to Provide Unteriori. Extracherant Groups (Report)	124	Evaluation of the Administration's Proposal for Governmens Assistance to Provate Uraniem Enclobrant George (Regord)
Progress and Problems in Developing Nucleur and Other Esperimental Techniques for Recovering Natural Gains the Rocky Mountain Ares (Re-		Proposed Revisions to the Criteria and Continent Ser Unintern Eurochimser Services (Report)
port)	077	Selected Aspects of Nuclear Power- plant Reliability and Beencomics (Re- excil
P.L. 84-1028 All Pareheast and Condemnation Pro-		
otedings Regarding the Naval Po- troleum and Oil Shale Reserves	259	P.L. 89-440 Consolidated Pinancial Statement of the Pederal Columbia River Power
P.L. 85-256		System
Selected Aspects of Nuclear Power- plant Reliability and Boonomics (Re-		
port)	050	P.L. 90-481, 5 14 Annual Report of the Scoretary of Tran- sportation on the Administration of
P.L. 85-508 Followup Review of the Naval Po- troloum Resorves (Report)	220	the Natural Gas Pipekne Safety Act of 1948
P.L. 86-137		P.L. 91-144
Replyment Requirements of the Ped- eral Investment in the Tennessee Val- ley Authority's Electric Fower System (Report)	099	Poello Northwest Hydro-Thermel Power ProgramA Regional Ap- propoli to Meeting Bleetrin Power Ro- quirements (Report)
P.L. 86-705		
Adecinistration of Regulations for Sur- face Exploration, Mining, and Recla- mation of Public and Indian Cost Lands (Report)	993	P.L. 91-190 Administration of Regulations for Sur- face Exploration, Mining, and Recis- mation of Public and Indian Coal
Compensatory Royalty Agreements	272	Lands (Report)
Conservation Division Task Posse Re- port on the Onshore Lease Manage-	~1	P.L. 91-224
ment Program Sady for the U.S. Geological Survey	240	How the Federal Government Partici-

Onahore Lasse Macagement Program Study for the U.S. Geological Survey

Services (Report)	697
Selected Aspects of Nuclear Power- plans Reliability and Becomercies (Re- port)	050
P.L. 89-448 Consolidated Pinancial Statement of the Pederal Columbia River Power System	274
P.1. 90-481, § 14 Annual Report of the Scoretary of Trans- sportation on the Administration of the Natural Gas Fipelane Safety Act of 1968	277
P.1. 91-144 Pacifia Northwest Hydro-Thermal Power Program-A Regional Ap- provok to Meeting Electric Power Re- quirecremia (Report)	161
P.L. 91-190 Administration of Regulations for Sur- face Exploration, Mining, and Recla- mation of Peblis and Indian Coal Lands (Report)	093
P.L. 91-224 How the Pederal Government Partici- pairs in Aethylics Affecting the En- ety Resources of the United States (Report)	098
Energy Digest SEPTEMBER	1977

P.L. 91-273		act (Report)
Commonts on Energy Research and		Processi Changes
Development Administration's		etzy Congrission
Proposed Arrangement for the Clanch River Preceder Reactor Demonstra-		Carrying Out the
tion Plant Project (Sepert)	044	Breder Reactor
Further Comments on Atomic Energy		part (Report)
Commission's Proposed Arrange-		
ment for the Liquid Metal Past		P.L. 92-463
Breader Reactor Demonstration Pro- ject (Rappy)	033	Review of the Pode trateet's Advisor
Proposed Changes to the Atomic En-	033	pert)
ergy Commission's Arrangement for		Pr. 4
Carrying Out the Liquid Metal Past		P.L. 92-500
Breader Reactor Demonstration Pro-		Recovery of Bane
ject (Repiri)	002	and Investigation
P.L. 91-379 Review of Complaints Cancoming the		
Mandatory Petroleum Allocation		P.L. 92-583 The Coastel Zone
Program and the Regulation of Pe-		gram An Useers
troleum Priong (Report)	102	fran ver civere
		P.L. 92-543, § 313(a
P.L. 91-439		Report in the Cong
Pacific Northwest Hydro-Thermal		Management
Power Program-A Regional Ap- proach to Meeting Electric Power Re-		
Questints (Report)	161	P.L. 93-14
		Using Solid Waste
P.1. 91-512		sources and to Co
Policies and Programs Being Developed		
To Expand Procurement of Products		
Canthing Respiled Materials (Re-		P.L. 93-153
pent)	023	(Degest of Law)
		The Energy Inform
P.L. 91-512, § 104(e)		(Technoly)
Resource Recovery and Source Reduc- tion	279	Grants of Rights-of through Federal I
(1) (i) (i) (i) (i) (i) (i) (i) (i) (i) (i	24	Incoverence Soll
		Energy Data Ci
P.1. 91-560 Commons on Proposed Legislation to		and Reporting (R
Charge Bass for Governman Charge		Review of the Info
for Unstam Enrichment Services		Prootsees of the E
(Report)	131	ministration (Rep
Selected Aspects of Nuclear Power-		Survey of Publication Development and
plast Reliability and Economics (Re-	650	kan Od Market (
1000	100	Trans-Alaska Oil P
		Construction th
P.L. 91-581 How the Pederal Government Partici-		1975 (Report)
pates in Activities Affecting the En-		
ergy Resources of the United States		P.L. 93-159
(Report)	078	(Depri of Law)
		The Administration
P.L. 91-604		See-Ande Program
Federal Coal-Lessing Program of the		Offices (Report)
Department of the Interior (Report)	221	Problems in Regul
Role of Federal Coal Rescorces in		Prices by the Permission (Rep-
Monting Energy Coals Needs to be Determined and the Leasting Process		Review of Complete
Improved (Aspert)	226	Mandatory Pete

Pregram and t

troleum Pricing

Petroleum Marke

P.L. 93-159, § 4

(Digest of Law)

P.L. 93-239

147

P.L. 91-431

Mining and Minerala Policy

P.L. 92-84

Comm	dissla	616	Ргорне	d Am	-9504
mont	for	the $$	Liquid	Metal	Past
Break	er Re	est o	r Dence	writige	Pro-

es to the Alamie Fe-	033	P.I. 93-245 Followup Renew of the Naval Pa- treleton Reserves (Report)
the Liquid Metal First ar Demonstration Pre-	032	Legality of Administration Actions in Printing and Storing Gas Coopers (Letter)
fecal Energy Adminis-		Legelity of Printing Gesoline Rationing Cempous by Pederal Energy Adminis- tration (Lever)
ary Committees (Re.	183	P.L. 93-275 (Digra of Law)
pensas from Cleanap an of Orl Spills (Lener)		The Administration of the Potroleum Set-Aside Program by State Energy Offices (Report)
	107	Amendmont of the Federal Energy Ad- mension Act of 1974 and the Ex- tension of Its Expension Date (Learer)
ne Management Pre- inten Fature (Report)	1.87	Energy Conservation Practices En- ocurraged by States (Report)
(a) gress on Coastal Zore		Comments on the Energy Information Act (Letter)
gresson coasta zore	256	The Roargy Information Act, S. 1864 (Testinony)
		The Exportation of Coal (Report)
ate to Conserve Re- Create Energy (Report)	013	Improvements Still Needed in Federal Energy Data Collection, Analysis, and Reporting (Report)
		Natural Gas Shortage: The Role of Im- ported Liquefied Noterel Gas (Report)
	458	Problems in Regulating Natural Gas
rmation Act, S 1864	176	Prices by the Federal Energy Ad- monstration (Report)
of-Way for Pipelines Lands	273	Review of the Pederal Entryy Adminis- mation's Advisory Committees (Re-
ill Needed in Federal Collection, Analysia,		part)
(Report)	182	P.L. 93-275, § 15
Federal Energy Ad-		Federal Energy Management Program
eperd tions on Exploration.	180	Annual Roport
nd Dolivery of Alas- (Report)	189	P.L. 93-275, 1 15(c)
Pipeline-Progress of	107	Federal Energy Administration Annual Report to the President and Con-
through November	C#4	great
		P.L. 93-275, § 18(d)
	459	The Economic Impact of Energy Ac-
on of the Petroleum Mrs. by Store Briergy		tadrtik
ulating Natural Gas	122	P.L. 93-275, § 21(c)
Pederal Energy Ad-		The Federal Energy Administration: Questerly Report on Private Oriev-
shots Contensing the troleum Allocators	139	ances and Redress
e Regulation of Pe- (Report)	102	P.L. 93-275(4)(1)(1)(A) Action Proposed Concerning Conflict of Interest
L Shares	284	P.L. 93-319
		(Digest of Law)
		Improvements Still Needed to Federal

450

104

100 461

122

173

006 Energy Information 170

176

152

241

139

183

101

sen

255

250

224

244

462 162 189

Energy Data Collection, Analysia,

and Reporting (Report)

P.L. 93-319, 6 11 Energy Information Reported to Con- gress as Required by Public Law 92- 319	283	Penantial Report on the Goathermal Resources Development Fund The Legasd Metal Paul Brooder Reactor Protestes and Uncertainties (Shaff mode)
P.L. 93-312 The Administration of the Petroleum Set-Aude Program by State Energy Offices (Report)	122	Problems in Identifying, Danaloping, and Using Geothermal Resources (Report)
Fam for Construction of a Mignetohy- drodynamica Test Facility in Mon- ana (Report)	085	P.1. 93-438 (Digest of Low) Assessment of United States and Infer- national Controls over the Peacofel Uses of Nuclear Energy (Report)
P.1. 93-324 Using Subd Weste on Conserve Re- seneces and to Create Energy (Report)	013	Uses of Numeric Story (Hoport) Contracting Out Batto Planning and Management Program Functions (Re- port)
P.I. 93-344 Comments on Selected Aspects of the Administration's Properties of Cov- ettiment Associates to Privite		Evaluation of the Publication and Dis- tribution of "Shedding Light on Parts about Nuclear Energy" (Repirt) Evaluation of the Status of the Part Plan Text Facility Program (Repirt)
Uranum Xonchmens Groups (Report) An Evaluation of Proposed Pederal As-	145	Foderal and State Solar Energy Re- terroh, Development, and Demon- stration Activities (Report)
astance for Financing Commentati- aation of Emerging Energy Technologies (Report)	151	The Lapsed Metal Past Breeder Resource Promises and Uncertainities (Staff mark)
P.L. 93-377 Proposed Distribution of Special Na- cloar Materials	303	Management and Farshing Aspects of Three Nonsocieur Energy Research, Development, and Demonstration Subprograms (Report)
P.L. 93-383, § 814 Report on Solar Energy Demonstra- tion	263	Nettoral Standards Needed for Res- dential Energy Construction (Report) Natural Gas Shortage The Role of In-
P.L. 93-404		period Lepseford Natural Gas (Report)
Plans for Construction of a Magnetohy- drodynamics Test Pacify in Mon- tana (Report)	086	Solar Energy Research and Develop- ment (Report) Problems in Identifying, Developing.
P.L. 93-409		and Using Geothermal Resources (Report)
(Dipe-t of Law) Federal and State Solar Energy Re- amech, Development, and Demon-	453	Stepsoyah Nuclear Phote (2045) Status of Federal and Private Research and Development Efforts to Conserve Energy by Reducing Electro Power
stration Activision (Report) The Logical Menal Fast Breeder Reactor Promotes and Uncertacetics (Sing)	200	Transtrussion Losses (Staff mudg) This Country's Most Expensive Light
study) National Program for Sofar Heating and	049	Water Researce Safety Test Paculary (Report)
Cosileg	308	
National Standards Needed for Retu- dential Energy Conservation (Report) Opportunities to Improve Plantang for Solar Energy Retearch and Develop-	019	P.L. 93-438, 5 208 Summery of Absormal Occurrences Reported to the Nuclear Regulatory Commission
nem (Report)	202	P.L. 93-438, § 307(c)
P.I. 93-409, 6 12 Spenal Report on Solar Heating and Cooling Demonstration Program	264	Report to the President by the Nuclear Regulatory Commission
P.L. 93-610		P.L. 93-473
(Digest of Law) Activities of Eich Goothammi Demon-	464	(Dupot of Low) Activities of Solar Energy Coordination and Management Project
stration Project Attentics of the Geochermal Coordan- tion and Mantgement Project	307 306	Pederal and State Sciar Energy Re- restch, Development, and Denon- stration Astronies (Report)

	P.1. 93-479 Certain Actient That Can Be Taken to Help Improve This Nation's Urasian Flettere (Report)	051
۰.		
	P.1. 93-485 Proposed Agreements for Cooperation with Other National on Atomic En- tripy	304
	P.L. 93-552	
	Recycling of Materials Solid Weste Managoment, Collection,	250
	Disposal, Resource Recovery, Rocy- clung Program	257
	P.L. 93-559	
	P.L. 98-309 U.S. Finances) Assistance in the Deve- lopesant of Foreign Nuclear Tenergy Programs (Report)	239
	P.L. 93-577	667
	(Digest of Law) Federal and State Solar Energy Re-	46/
	tearch, Development, and Demon- stration Activities (Report) Interneyements Needed in the Federal	200
	Enhanced Oil and Om Receivery Re- search, Development, and Demon- stration Program (Report)	155
	The Logality of the Reported Use by the Energy Research and Development Administration of Certain Fossil In- ergy Funds (Letter)	667
	National Plan for Energy Rescerch, Development and Domonstration	
	Pleasing and Analysia Proposed Establishment of Joint Peder-	305
	al-Industry Nonneclear Corpora- tion	315
	Ways to Strengthen Congressional Con-	
	ttel of Energy Construction Projects Other Thin Nuclear (Report)	192
	P.L. 93-577, § 15(a) Report on ERDA's Nontstalaar Activi- tics	310
	P.L. 93-580 Indian Natural ResourcesPart II- Cost, OR, and Oac-Botter Manage- ment Cas Insprove Development and Instrans Income and Employment (Report)	225
	P.L. 93-618 The Expectation of Coal (Report)	244
	P.1. 93-638 Indian Natural Resources-Part II: Cost, Oil, and Gas-Better Menge- ment Can Inprove Development and Increase Income and Engloyment (Repert)	225

~

.....

20

088

065

-----

0.49

200

619

241

00

025

059

316

318

466

200

Development, and Demon-Antrosies (Report)

302 P.L. 93-646, § 5

Submission of U.S.S.R. Energy-Related Transactions for Congressional Re-	
view	200
Energy Digest SEPTEMBER	1977

P.L. 94-91	
Svalastics of the Publication and Dis- tubation of "Shedding Light on Facts about Noclear Energy" (Report)	064
P.L. 94-163	
(Digest of Law) Employee Disclosures under the Em-	468
ergy Policy and Conservation Act	265
The Energy Information Act, S. 1864 (Testlentry)	176
An Evaluation of Proposed Federal As- sultance for Yesening Commerciali- zation of Emerging Energy Technologies (Appen)	151
Exercision of a Refined Petroleum Pro-	154
duct from the Mandacery Petrolaum Allocation and Price Regulations	291
Frencial Disclosures by Employees Performing Functions under Energy	
Policy and Construction Act	287
GAO's Energy Role (Speech)	137
Improvements Still Neederd in Federal Energy Data Collection, Analysis, and Reporting (Report)	162
Industrial Energy Efficiency Program	104
	296
Issues Needing Attention in Develop- ing the Strategic Petroleum Reserve (Report)	040
Operation of State Reeegy Connerva-	285
Polices and Program Bring Dorploned	
To Expand Procurement of Products Containing Recycled Maternals (Re-	
port)	023
Progress of Energy Conservation Pro- gram for Consumer Products Other	
Then Automobiles	294
Roverw of Average Fael Beensomy Standards under Title V of Meter	
Vehicle Information and Cent Savangs Act	276
Roview of the Federal Energy Adminis-	
tratice's Advaory Committees (Re-	183
Rovew of Voluntary Agreement and Plan of Action To Implement the In-	
trenational Energy Program	275
Stratege Petroleun Reserve Plan	287
P.L. 94-187	
The Legality of the Reported Use by the Energy Research and Development	

- Administration of Certain Potal Incrgy Pands (Letter)
- P.L. 94-197 Kvaluation of the Pablication and Dustribution of "Shedding Light on Facts about Nuclear Energy" (Report)
- P.L. 94-258 Annual Report to Congruas on Nuval Petroleum and Oi Shale Reserves Exploration of National Petroleum Reserve in Alaska Management of and Plans for the Naval Petroleum Reserves (Report)

pieration of National Petroleum Re- aerve in Alaska	271
P1. 94-370 (Digital of Less)	459
P.L. 94-377 (Deges of Law) Reergy Policy Decision-miking, Organ- umilion, and Natural Energy Goah	470
(Report)	193
P.1. 94-385 (Digen of Lm) Denexic Energy Resource and Re-	471
serve Tatinases-Uses, Lumtations, and Needed Data (Report) An Evaluation of Proposed Pederal Au-	223
satanoo fer Hinancing Commercesh- annon of Simmigrag Biorgy Technologies (Papert)	1\$1
P.L. 54-538 Cast and Schröden Entimates for the Nation's Fast Equify Meed Past Brecher Researce Densessation Prov- enginst (Report) That Equify of the Reported Use by the Energy Fasch and Derbiguett Administration of Cortum Fastil Es- ergy Fands (Lense)	647 687
P.L. 95-2 (Digett of Law)	472
U.S. Code	
2 U.S.C. 261-270 Evaluation of the Publication and Dis-	

Progress of and Potore Plans for Ex-

tribution of "Shedding Light on Fects about Nuclear Energy" (Report)

054

243

103

221

5 U.S.C. 512 687 Can the U.S. Browder Reactor Developesent Program Be Accelerated by Us-ing Poreign Technology? (Report) Information on Certain Oil and Gas lodustry Oversight Responsibilities (Reint 064

> 5 U.S.C. 552(b) Federal Cost-Lanuat Program of the Department of the Interior (Report)

142

270

227

5 U.S.C. 2105(a) Comments on Energy Research and Development Administration's

Proposed Arrangement for the Clinds River Breeder Reactor Demonstra- tion Plant Project (Repart) The Energy Research and Develop- ment Administration's Proposed Ostimet with Project Management	644
Corporation, Contrionwealth Edison, and the Teanaesse Vallay Authority (Espect)	635
5 U.S.C. 3107 Staffing of Foderal Energy Administra- tion's Office of Communications and Public Athens (Report)	164
10 U.S.C. 641 Management of and Plans for the Naval Pairpleon Reserves (Report)	227
10 U.S.C. 7421-38 Ospability of the News] Petroleum and Od Shale Reserves to Meet Bran- geory OS Needs (Report)	072
Capability of the Naval Petroleum and Oil Shalt Reserves to Meet Embr- gency Oil Needa (Termining)	673
10 U.S.C. 7424(b) Protection of Oil Roserves	251
10 U.S.C. 7425(b) All Furchases and Condemnation Pre- condings Regarding the Naval Re- troleum and Oil Shale Roserves	259
10 U.S.C. 7431(b)(c) Annual Report to Congress on Navel Petrojeum and Oil Shale Reservor	343
10 U.S.C. 7494 Quaterly Report of Production from the Navel Potroleum and Orl Shale Reserves	258
12 U.S.C. 435(b)(3) Submission of U.S.S.R. Emorgy-Related Transactions for Congressional Re- view	200
12 U.S.C. 1701x-5(c) Report on Solar Energy Demonstra- tion	263
13 U.S.C. 9 Improvements Still Needed in Federal Energy Data Collection, Analysis, and Reporting (Report)	182
15 U.S.C. 77e Receipt and Coordination of Natural Gas Reserve Data (Report)	a78
15 U.S.C. 780 Receipt and Coordination of Nationi Gas Reserve Data (Repart)	C78
15 U.S.C. 717 Domestic Socray Resource and Re-	

Processed Arrangement for the Clipch

server Experience-Uses Limitations. and Needed Data (Report) Need for largeoving the Regulation of the Natural Gas Industry and Mansacraett of Internal Operations (Repint Need for the Federal Power Commitsoon to Evaluate the Effectiveness of the Natural Gas Containent Policy (Second Baladale Contract Seles Data Needed for Projecting Amagents of Natural Gas That Could Be Deresulated (Re-Rent) Status and Obsinctes to Commercialiusman of Coal Linespannon and Gendication (Ameril) 15 U.S.C. 717(a)(w) (Deput of Long) 15 U.S.C. 717e (b) Recent and Coordination of Natural Gas Reterve Data (Report) 15 U.S.C. 717j(b) Effect and Operation of Interstate Conpiacia Relating to Natural Gas. 15 U.S.C. 717-717w Network Gas Shortage The Role of Imported Lagarilled Natural Gas (Report) 15 U.S.C. 751 et seg. (Supp. III) (Digest of Law) 15 U.S.C. 753 Petroloum Market Shares 15 U.S.C. 760e(d)(2) Esemption of a Reflect Permissin Product from the Mandatory Petroleum Allocation and Price Regulations 15 U.S.C. 761 Comments on the Energy Information Act (Letter) Problems of Independent Refiners seed Ganofice Retailers (Report) 15 U.S.C. 761 et see, (Supp. IV) (Depend Law) 15 U.S.C. 761 (Supp. V) Domestic Energy Resource and Reserve Estimates-Uses, Limitations, and Needed Data (Report) 15 U.S.C. 761-786 Cention Actions That Can Se Taken to Help Improve This Nation's Uranium Deture (Report) 15 U.S.C. 763(I)(1)(A) Action Proposed Concerning Conflict of Interest

192

458 15 U.S.C. 2002(a)(2) Revorw of Average Fuel Economy Stendards under Totle V of Monor 28.4 Vehecle Information and Cost Savings Act 14 U.S.C. 12A Repayment Requeenents of the Fed-101 ctal Investment in the Tennomer Valky Authority's Electric Power System (Report) 16 U.S.C. 791 Domento Energy Resource and Roserve Estimates-Uses, Limitations, 121 and Needed Data (Report) Need for Improving the Regulation of the Nateral Oss Industry and Man-461 agament of Internal Operations (Report) 16 U.S.C. 791 et seq. Problems in Licensing Hydroelectric 233 Projects (Repert) 16 U.S.C. 792 Need for the Federal Power Commission to Evaluate the Effectiveness of the Natural Gas Cartasiment Policy 061 (Report) 16 U.S.C. 792-825e Managament Improvements Needed in the Federal Prover Commission's 238

15 U.S.C. 771

15 U.S.C. 774(e)

15 U.S.C. 777

nza 15 U.S.C. 783

agares and Redness

15 U.S.C. 791 (Supp. IV)

(Dignit of Law)

15 U.S.C. 796(a)

112

130 15 U.S.C. 774

179

085 Federal Energy N Annual Report

277

241

GAO's Energy Bole (Speech)

and Needed Data (Report)

Domestic Energy Resource and Ro-

Federal Eccerty Administration Annual

Federal Energy Management Program

The Economic Impact of Entryy Ac-

The Federal Energy Administration Quarterly Report on Private Ories-

Entryy Information Reported to Con-

gress as Required by Pablic Law 93-

Report to the President and Con-

200

193

255

234

442

272

278

000

123

112

132

130

sorve Estamates-Uses, Lorestations,

15 U.S.C. 772(f) (Supp. V)

Processing of Electric-Rate-Increase Cases (Report)	153
16 U.S.C. 863(F) Southeastern Foderal Power Program -Financeal Management and Program Operations (Report)	174
16 U.S.C. 805 Reports of Costs of Cortain Structures on Nongovernment Waters	278
16 U.S.C. 424(a) Curtaineen of Electric Power Service by the Tennessee Valley Authority (Report)	117
16 U.S.C. 825 Access of the Poderal Power Commis- seen to Busau of Realismation Re- oards to Invare Comphance with the Poderal Power Act (Letter)	163
16 U.S.C. 8251 Reveaues and Cens Allocated to Power Opensions at Multiple-Purpase Pro- jects in the Sonthwatern Federal Power System (Report) Southeastern Poderal Power Program- Opensions (Report)	095
16 U.S.C. 831 of seq. Information on Selected Aspects of the Power Operations of Tenaossee Val- ley Authority (Report)	167
16 U.S.C. 832e Pacific Northwest Hydro-Thermal Power Program-A Regional Ap- proach to Moning Electric Power Re- quirements (Report)	161
16 U.S.C. 835j Consolutioned Financial Statement of the Pederal Columbia River Power System	274
16 U.S.C. 971 Nood for Interving the Regulation of the Netward Gas Industry and Man- agement of Internal Operations (Re- part)	113
16 U.S.C. 1426(n) Report to the Congress on Coastal Zone Menagement	256
18 U.S.C. 1968 Problems is the Pederal Brossy Ad- minestration's Complexere and En- forcement Effect ( <i>Report</i> )	118
18 U.S.C. 1913 Evaluation of the Publication and Dis- tribution of "Stredding Light on Facts about Nuclear Energy" (Report)	054
23 U.S.C. 121 (Supp. IV) (Digest of Law)	460

25 U.S.C. 396 Infran Natural Resources-Part 11 Cost, Oil, and Oas-Botter Manage- ment Can Improve Development and		30 U.S.C. 185(w)(2) Orants of Rights-of-Way for Papelines through Federal Lands
Intreate Income and Employment (Report) 25 U.S.C. 466	225	30 U.S.C. 191 Agreement between the Secretary of the Internet and Officials of the State of Unit Pertaining to Cul Shale Leases
Indust Natural Resources-Part II Conl, Oil, and GasBetter Manage-		(Letter)
ment Can Improve Development and Increase Income and Employment (Report)	225	30 U.S.C. 201(o) Further Action Needed on Recommen- dations for Improving the Admenia- tration of Federal Coal-Leasing
30 U.S.C. 1		Program (Report)
Domestes Energy Resource and Re- serve Estimates-Uses, Lonstatures, and Needed Data (Reserv)	233	30 U.S.C. 207
30 U.S.C. 21e	100	Further Artics Needed on Recommen- dations for Improving the Adminis- tration of Federal Coal-Lesson
Demonto Energy Resource and Re- nerva Estimates-Uses, Limitations,		Program (Seport)
and Needed Data (Report)	223	Role of Pederal Coal Resources in Meeting Energy Gasls Needs to be
Mining and Minerala Policy	267	Octomined and the Letsong Process Improved (Report)
30 U.S.C. 22 Construction Doveson Task Force Re-		
part on the Onthere Lease Manage- ment Program Study for the U.S Coological Survey	249	30 U.S.C. 226(g) Compensatory Repairy Agreements
Orabore Lesse Management Program		30 U.S.C. 321
Study for the U.S. Geological Survey Review of Royalty Accounting System	250	Status and Obstacles to Commercializa- tion of Coal Liquefactors and Gasifi-
for Orshore Gil and Gas Leases Royalty Accounting System Study of	253	cation (Report)
Solid Mitteral Leasing Activities	254	30 U.S.C. 351
30 U.S.C. 181		Administration of Regulations for Sur-
Administration of Regulations for Sur- face Exploration, Munng, and Recis-		face Exploration, Minag, and Reela- mation of Public and Indean Coal Lands (Report)
meton of Public and Indian Coal Lands (Report)	093	Conservation Devision Task Force Re-
Conservation Division Task Force Ro- part on the Onshore Lease Manage- ment Program Study for the U.S.		part on the Outbore Lease Manage- ment Program Study for the U.S. Geological Survey
Geological Servey	249	Onshore Lense Management Program Study for the U.S. Geoingias Survey
Department of the Internet's Views of Comments on Administration of Regulations for Surface Exploration,		Review of Royalty Accounting System for Ombore Off and Gas Leases
Mining, and Reclamation of Public and Indian Coal Lands (Report) Leasests of Mintenia on Public Lands	095	Role of Federal Coal Resources to Meeting Parenty Goals Name to be
(Report)	211	Determined and the Leasing Process Improved (Report)
Oil and Oas Loating on Federal Lands (Report)	210	Royalty Accounting System Study of Solid Mineral Leasing Activities
Onthore Lease Management Program Study for the U.S. Coological Survey		
Provisions of Nevajo and Hopi Coal	250	30 U.S.C. 801 Cartulment of Blootric Power Service
Leases (Report) Review of Reyalty Accounting System	207	by the Tennessee Valley Authority (Report)
for Onshare Oil and Oas Lesses Role of Federal Coal Resources in	253	Energy Reorganization Legislation (Textlosony)
Meeting Energy Goals Needs to be Determined and the Lessing Process Improved (Report)	226	How the Federal Government Partici- puter in Activities Affecting the En- ergy Resources of the United States
Royalty Accounting System Study of Solid Mineral Leasing Activities	254	(Report)
		30 U.S.C. 1001-25
30 U.S.C. 184 Federal Coal-Lensing Program of the		Problems in Identifying, Developing, and Using Geothermal Researces

217	30 U.S.C. 1162(b) Arthrates of Each Geothermal Demon- stration Project	307
217	31 U.S.C. 43b Informents Soll Needed in Federal Energy Case Callectore, Analysis, and Reporting (Report)	182
226	31 U.S.C. 482o Evaluation of the Publication and Dis- tribution of "Shelding Light on Facts about Nuclear Energy" (Reper)	054
272	Lening of Missenis on Public Lands (Report)	211
085	31 U.S.C. 665 Southeastern Podeat Power Program- -Passenil Management and Program Operations (Report)	174
093	31 U.S.C. 801 Fatere Structure of the Uraneum Ba- nehment balasity (Texturenty)	037
249	33 U.S.C. 407 Frohiens Caused by Coal Mining Near Pedeal Reservoir Projects (Report)	075
250 253	33 U.S.C. 1151 Rodeong Nuclear Powerplant Lead- tense: Many Obstacles Restain (Re- port)	069
226 254	33 U.S.C. 1161 Improved Inspection and Regulation Could Reduce the Possibility of Ob-	
	spills on the Outer Continential Shelf (Rapin) Recovery of Expenses from Cleanap and Investigation of Oil Spills (Leiter)	100
117		107
194 098	33 U.S.C. 1321 (Supp. II) Recovery of Expenses from Cleanup and Investigation of Oil Spills (Lenne)	107
100	40 U.S.C. 481 Requested Utility Rate Increase by the Potenas Electric Power Company (Report	197

30 U.S.C. 1144(c)

(Dates of Law)

209 30 U.S.C. 1162(m) Astivities of the Goothermal Coontrastion and Management Project

273

Principal Report on the Geothermal

Resources Development Fund

30 U.S.C. 1162 (Supp. IV)

Federal Coal-Lessing Program of the Department of the Interior (Report) 221

(Report)

.....

40 U.S.C. 486		42 U.S.C. 2133(d) Cantenia at Selected Ametita of the
Requested Uning Rate Intrase by the		Capitions at Selected Aspetts of the Additionarian's Proposal for Gov-
Potomac Electric Power Company (Report)	127	emment Assetsure to Private
(Rep. 7)	127	Uration Enclinent Groups (Report)
42 U.S.C. 220(i)		
Improvements Neuled in the Program		
for the Protection of Special Nuclear		42 U.S.C. 2153
Material (Report)	034	Centum Actions That Can Be Taken to Help Improve This Nation's Unsalut.
		Picture (Report)
42 U.S.C. 315F		Serves Dedicad
Attentions between the Secretary of		
the Intersor and Officials of the State		42 U.S.C. 2153d
of Utah Pertaining to Orl Shale Leaters		Proposed Agreements for Cooperation
(Lever)	209	with Other Nations as Autraic En-
		ents.
42 U.S.C. 1857		
Federal Coll-Lensag Program of the		42 U.S.C. 2201(b)
Department of the Internar (Report)	221	Projecting Speciel Nuclear Material in
		Tranat: Improvements Made and Ex-
Role of Federal Coal Resources in Meeting Energy Geels Needs on be		song Problems (Report)
Determined and the Leasing Process		
Improved (Report)	225	42 U.S.C. 2210
mitroren (miner)		Evaluation of the Publication and Dis-
		urbution of "Shedding Light on Paets
42 U.S.C. 1862		about Nuclear Energy* (Report)
Constrents on H R 11112, 93rd Con-		Selected Argents of Nuclear Power-
gress, a Bill to Purther Research, De-		plant Rehability and Econotics (Re-
volopmest, and Commercial		asti
Depoistrations in Goothamust En-	284	
ergy (Latter)	196	42 U.S.C. 2473
		Connents on H.R. 11212, 93rd Con-
42 U.S.C. 2011		arest, a Bill or Fwither Research, De-
Allocation of Urannum Ernehment Ser-		velopment, and Camperial
vices to Firel Foreign and Domentic		Denoratizations in Goothermal En-
Nuclear Reasons (Report)	255	ersy (Letter)
Insprovements Needed in the Program		
for the Protection of Special Nuclear		
Maxmai (Report)	034	42 U.S.C. 3251
Proposed Revelants to the Criteria and		Using Solid Waste to Connerve Re- sources and to Crette Energy (Report)
Contracts for Unterest Enrichment		anness ant of Crone The RA (where)
Services (Report)	097	
Protecting Special Nuclear Material in		
Training Improvements Made and Ex-		42 U.S.C. 3253(e)
nong Problems (Report)	035	Resource Receivery and Source Reduc-
Role of the International Atomic Er-		bas
trigy Agency in Sulegranding Nuclear		
Material (Report)	240	42 U.S.C. 4201
U.S. Presental Assistance in the Deve-		Forther Action Neofed on Reconstra-
lopment of Pereign Nuclear Energy		dations for Improving the Adminis-
Programs (Repart)	239	tration of Federal Cost-Leasing
		Program (Report)
42 U.S.C. 2051		Reducing Nuclear Powerplant Lead-
Progress and Problems in Developing		tutes Many Distacles Repairs (Re-
Nuclear and Other Experimental		part
Techniques far Rocevering Natural		
Ges at the Rothy Mountain Area (Re-		42 U.S.C. 4332
parti	077	How Solar Energy Was Treated in the
<i>p</i>		AEC Charman's Report, "The Ne-
		tice's Energy Future" (Report)
42 U.S.C. 2051(a)(4)		
Convinents on Selected Aspects of the		
Admensization's Proposal for Gar-		42 U.S.C. 5081 (Supp. IV)
erreners: Assistance to Private Urstation Eartobet ent Groups (Report)		(Diges of Lew)
v reasons is amond and Groups (Report)	145	
	145	42 U.S.C. 5510(d)
		Network Program for Solar Heating and
42 U.S.C. 2074(a)(ii)		Cooling
Proposed Distribution of Special Nu-		Special Report on Solar Hoading and
citar Matemás	303	Cooling Demonstration Program

42 U.S.C. 2133(4)

145

061

304

-

064

050

194

012

279

217

0.0

198

508

42 U.S.C. \$\$17 (Supp. IV) (Digest of Law)	463
42 U.S.C. 5551 et seq. (Supp. IV) (Digest of Las)	455
42 U.S.C. 5562 Astrontics of Solar Energy Coordination and Management Propert	302
42 U.S.C. 5801 Comments on the Administration's Proposed Synthesic Pash cellization Program (Report) Development of Interrigency Relation-	140
ships in the Regulation of Nuclear Materials and Facelitins (Report)	055
Evaluation of the Publication and Dis- tribution of "Shedding Light on Pacts about Nuclear Energy" (Report)	064
Federal Coal Research-Status and Problems to Bc Resolved (Report)	680
Reducing Nuclear Powerplant Laad- times: Many Obstacles Remain (Re- part)	069
42 U.S.C. \$801 at seq. The Legality of the Reported Use by the Benergy Research and Davelopment Administrations of Cortain Possil En- cept Funds (Letter)	647
42 U.S.C. 5801 (Supp. V) Demostic Energy Resource and Re- serve Estimates-Uses, Limitations, and Needed Data (Report)	233
42 U.S.C. 5818 Foderal Efforts to Intervove the Fuel Economy of New Autoensibiles (Re- pert)	630
42 U.S.C. 5941 Issue: Related to the Clealing of the Nu- clear Fuel Services, Incorporated, Re- processing Plant at West Velley, New York: (Report)	070
42 U.S.C. 5048 Summary of Atmorphal Occurrences Reported to the Nuclear Regulatory Commission	316
42 U.S.C. 5876 Reducing Nuclear Powerplant Lead- tines: Many Obstacles Remain (Re- part)	049
42 U.S.C. 5877(c) Report to the President by the Nuclear Regulatory Commission	318
42 U.S.C. 5901 Comments on the Administration's Proposed Synthesis Paels Commer- obligation Program (Report)	145
Report on ERDA's Nontoolear Antivi- ties	310

42 U.S.C. 5901 et seg. The Legality of the Reported Use by the Energy Research and Development Administration of Certain Possil Energy Funds (Lever)

42 U.S.C, 5901 at seq. (Supp. IV) (Diges of Law)

### 42 U.S.C. \$906(b)(7)(A) Proposed Establishment of Joint Federat-Industry Neuropolear Corpora-

42 U.S.C. 5914(a) National Plan for Energy Research, Development and Demonstration Planning and Annitysis

305

276

294

295

255

220

#### 42 U.S.C. 6201

(Degest of Law) Energy Conservation at Government Field Instaliations Progress and Problems (Report) Review of Velantary Agreement and Plan of Action To Implement the Interestional Energy Program

42 U.S.C. 6201 (Supp. V) Domestic Energy Resource and Reserve Estimates-Uses, Lenisations, and Needed Data (Record)

42 U.S.C. 6245 Strategic Petroleum Reserve Plan

42 U.S.C. 6308 Programs of Energy Conservation Program for Consumer Products Other Than Anterschiles

42 U.S.C. 6325 Operation of State Energy Conservation Plana

42 U.S.C. 6345 Industrial Energy Efficiency Program

42 U.S.C. 6392 Financial Disclostores by Employees Performing Functions under Zuergy Polety and Contervation Act

42 U.S.C. 6392(b)(2) Enployee Disclorures under the Enargy Policy and Conservation Act.

42 U.S.C. 6604(d)(2) Replocation of National Patroleum Re-

42 U.S.C. 6504(a)(3) Prearess of and Puttere Plans for Exploration of National Petroleum Re-271 serve in Aleska

Energy Digest SEPTEMBER 1977

42 U.S.C. 6801 (Danta of Law)

43 U.S.C. 31 Domestic Energy Resource and Reserve Estimates-Usos, Limitations, and Needed Data (Report)

43 U.S.C. 851,852 Agreement between the Secretary of the Intenor and Officials of the State of Utsh Pertaining to Oil Shate Leases (Letter)

- 43 U.S.C. 1331 Leasing of Minerals on Public Londs (Report) Oil and Gas Lessing on Federal Lands (Report)
- Outer Continental Shelf Sale #35 Problems Selecting and Evaluating Land to Lesse (Report)
- 43 U.S.C. 1331-1343 Problems in Identifying, Developing, and Using Geetherand Resources 028 Reneri
  - 43 U.S.C. 1332 Improved Inspection and Regulation Casid Reduce the Possibility of Odspils on the Octar Continental Shell (Report)
  - Information on Certain Oil and Gas In dutty Quenisht Remonshirum (Re-NO()

Outer Continental Shelf Oil and Gas Development: Interovementa Needed In Determining Where to Lesse and at What Dollar Value (Report)

Outlook for Federal Geals to Accelerate Leasing of Oil and Gas Resources on the Opter Continental Shelf (Re-

Reports of the Review Committee on Safety of Outer Continental Shelf Pe troleare Operations to the United States Geological Survey Reports of the Work Group on OCS

251

100

182

Safety and Pollation Control

43 U.S.C. 1332 et seu. Recovery of Expenses from Cleaner 276 and Investuration of Oil Scalls (Lenvel

> 43 U.S.C. 1339(b) Relands on Dater Continental Shelf Leasts

- 43 U.S.C. 1501 Problems in Identifying, Developing and Using Geothermal Resverces (Report)
- 44 U.S.C. 3512 improvements Still Needed in Federal Energy Data Collection, Analysis, and Reporting (Asport)

49 U.S.C. 1683 Arctial Report of the Secretary of Transportation on the Administration of the Natural Gas Pipeline Safety Aut of 1968

Report to the Congress on Matters Conturned in the Helium Act 50 U.S.C. App. 2051 Review of Complaints Concerning the Mandstory Petrolaum Allocation Propram and the Regulation of Petroleun Pricess (Report) 50 U.S.C. App. 2071(b) Legality of Printing Gasefine Roticeling Cospees by Federal Energy Administration (Letter) 105 210 U.S. Statutes 231 35 Stort, 781 Administration of Regulations for Surface Excloration, Mining, and Reciamatten of Public and Indian Coal Lands (Recent) 093 41 Stot. 437 Oll and Gas Leasing on Pederal Lands 100 41 Shot, 1063 (Deeps of Law) 41 Sect. 1070 Reports of Costs of Certain Struttured on Nongevornment Waters 296 218 52 Shot. 347 Adminutration of Regulations for Surface Exploration, Mining, and Recla-214 mation of Public and Indian Coal Lands (Report) 00 52 Shok. 821 (Dupper of Law) 457 252 52 Stat. 827 Effect and Operation of Intentate Com pects Relating to Natural Gas 67 Stat. 463 Oil and Gas Leasing on Federal Lands (Report) 210 269 67 Stot. 469 Refends on Outer Continental Shell 70A Stot. 458

50 H.S.C. 167n

a

All Purchases and Condemnsteen Proceedings Regarding the Naval Petroleum and Oil Shale Reserves 251

74 Stat. 783 Compensatory Revolts Agreements 74 Stot. 923 Report to the Congress on Matters Con-

tained in the Heliam Act 268

#### U.S. Stelutes

76 Stat. 905 Protection of Out Reserves
76 Stat. 906 Quantify Report of Productors from the Naval Petroleum and Od Shale Referves
76 Stot. 1124 Actor Proposed Constrainty Confect of Interest
80 Stut. 200 Grasshstered Financeal Statement of the Federal Columbus River Pawer System
82 Stat. 728 Annual Repect of the Secretary of Tran- sportation on the Administration of the Neural Gas Papeline Safety Act of 1968
83 Stok. 852 Admunistration of Regulations for Suc- hoo Exploratory, Missig, and Recla- meson of Public and Indust Coal Lands (Report)
84 Stot. 799 Review of Complaints Conversing the Mandatory Petroleum Allocation Progene and the Republics of Pe- teoleum Pricing (Report)
84 Stat. 1229 Resource Recovery and Source Reduc- tion
64 Stor. 1876 Manual and Materials Policy
86 Stot. 816 Problems Caused by Coal Mirang Near Federal Reservoir Projects (Report)
65 Stot. 1288 Repart to the Congress on Casatal Zone Management
87 Stot. S83 Grass of Rights-of-Way for Pipelmen through Federal Lands
87 Stol. 584 (Digr-( of Las)
87 Stol. 627 (Diges of Las) Federal Energy Admenstration Efforts to Audit Faul Oil Supplies of Mejor Unity: Companies (Project Unity) (Reput)
Pederal Energy Admientration's El- forts to Andri Demensie Crude Oil Producers (Report) Onl Oil Corporation's "Datable Dip- ping" on Crude Oil Produce Costs
(Report)

Problems in the Fe	dere	I Energy Off	ice's
Implementation	of	Energeney	Pe-

troleum Allucatore Programs at Re- goral and State Levels (Report) Problems of Independent Rollners and Gissiner Rolladen (Report)	108 121
Review of Compliains Concerning the Mandatrey Petroletim Allocation Pregram and the Regulation of Pe- troleum Pricing (Report)	102
87 Stot. 631 Petroleum Market Shares	384
87 Stat. 1046 (Digrd of Law)	460
88 Stat. 94 (Dupri of Law)	461
88 Steat. 96 Foderal Energy Administration Annual Report to the President and Con- gress Poderal Energy Administration Efficient to Auda Fael Dal Supplets of Major Unity: Comparess Original Unity?	390
(Report) Federal Exercise Admiratration's Ef-	126
forts to Audri Demestre Cruste Osl Producers (Report) Out Oil Corporation's "Double Dyp-	133
ging* on Crude Oil Product Costs (Report) Need for the Federal Power Commis-	138
sun to Evaluate the Effortiveness of the Natural Oss Curselment Policy (Report) Problems in the Federal Energy Ad-	130
mentitation's Compliance and En- focument Effort (Report)	118
80 Stot. 109 Federal Energy Management Program Annual Report	293
88 Stat, 111 The Branarski Impost of Energy Ac- tions	255
84 Stot, 113 The Pederal Energy Administrations: Quarterly Report on Provide George- neces and Redress	286
68 Stat. 246 (Diges of Law)	462
80 Store, 262 Energy Information Reported to Con- gress as Required by Public Law 93- 319	283
88 Stot. 276 Phra for Construction of a Magnetaby- drodynamics Test Pacality in Mon- tens (Report)	085

88 Stat. 473 Proposed Distribution of Special Nu-

clear Materials

88 Stol. 427 Problems in the Paderal Energy Ad- ministration's Compliance and En- forcement Effort (Report)	118
83 Stat. 738 Report on Solar Energy Demonstra- tion	263
88 Stot. 853 Fami for Construction of a Magneroby- derodynamics Test Family in Mon- tane (Report)	665
88 Stat. 1069 (Digest of Law)	453
86 Shah. 1076 National Program for Solar Heating and Cooling	208
Special Report on Solar Heating and Cooling Demonstration Program	264
88 Shelt. 1079 (Digest of Law)	464
48 Stot. 1088 Activities of Each Geothermal Domon- sention Project	307
Activities of the Geethermal Coordena- tion and Management Project	336
Pinancial Report on the Geothermal References Development Pand	339
88 Shot. 1233 (Digest of Low) The Legality of the Reported Use by the Energy Research and Development	455
Administration of Certain Fossil En- ergy Funda (Letter)	087
88 Stot. 1248 Summary of Abnormal Occurrences Reported to the Narless Regulatory Commission	316
88 Stat. 1251 Report to the President by the Nuclear Regulatory Commission	518
88 Stot. 1431 (Digest of Law)	455
88 Stat. 1437 Autivities of Solar Energy Coordination and Management Project	302
88 Stat. 1460 Proposed Agreements for Cooperation with Other Nations on Atomic En- ergy	304
88 Stol. 1759 Recycling of Materials Solid Watte Management, Collection,	260
Disposal, Rescurse Recovery, Recy- citing Program	357

### Low / Authority Index

88 Stol. 627

### Energy Digest SEPTEMBER 1977

#### Low / Authority Index

#### Miscellaneous Authorities

657

211

096

021

928

102

661

001

88 Stat. 1878		69 Stat. 1063
(Digns of Law)	457	The Legality of the Reported Use by the
The Legality of the Reported Use by the		Energy Research and Development
Entry Retearch and Development		Administration of Certain Fossil En-
Administration of Certain Fossil En-		ergy Pands (Lester)
orgy Fitsda (Letter)	647	
Report on ERDA's Nonmoless Activi-		\$9 Stat. 1073
ties	315	The Legality of the Reported Use by the
		Energy Research and Development Administration of Certain Fould En-
88 Stat. 1894		ergy Pands (Lener)
National Plan for Energy Research,		
Development and Demonstration		90 Stat. 305
Planning and Analysis	305	Exploration of National Petroleum Re-
		serve in Alseka
84 Stel. 2335		Progress of and Future Plans for Ex-
Substission of U 5.5 R. Energy-Related		plocation of National Petrolesen Re-
Transactions for Congressional Re- view		serve in Alaska
1164	285	
		90 Stet. 311
88 Stat. 7883		Annual Report to Congress on Naval
Proposed Establishment of Joint Feder-		Petroleum and Oil Shale Reserves
al-Industry Neurosciest Corpora-	315	
tion	312	90 Stat. 1013
		(Depost of Law)
89 Stat. 871		
(Digest of Law)	468	90 Stat. 1083
Review of Voluntary Agreement and		(Depert of Law)
Plan of Action To Implement the In-	276	
tornational Energy Program	2/6	90 Stet. 1125
		(Depert of Law)
89 Stat. 889		
Strategic Petroloum Reserve Plan	289	91 Stat. 5
		(Digest of Law)
89 Stat. 902		(might in min)
Review of Average Fuel Economy		
Standards under Title V of Motor		
Standards under Title V of Motor Vehicle Information and Cost Savings		Advertigen and Anthonision
Standards under Title V of Motor	278	Miscelleneous Authorities
Standards under Title V of Motor Vehicle Information and Cost Savings Act	278	
Standards under Tutle V of Motor Vehicle Information and Cost Savings Act 89 Stot. 932	278	AEC Manual Appendix 2491
Standards under Title V of Motor Vehicle Information and Cost Savings Act 99 Stot: 502 Progress of Energy Conservation Pro-	278	AEC Monuol Appendix 2401 Improvements Needed in the Program
Standards under Talle V of Motor Vehicle Information and Cost Savings Aot 99 Stot. 532 Progress of Energy Construction Pro- gram for Consumer Products Other		AEC Manual Appendix 2491
Standards under Title V of Motor Vehicle Information and Cost Savings Act 99 Stot: 502 Progress of Energy Conservation Pro-	278 294	AEC Menuol Appendix 2001 Improvements Needed in the Program for the Protection of Special Nuclear Material (Report) Properties Special Nuclear Material in
<ul> <li>Stanfards under Tulle V et Motor Vehicle Information and Cost Savings Act</li> <li>Stat. 532 Programs of Energy Construction Pro- gram for Consumer Products Other Than Astronobles</li> </ul>		AEC Monuol Appendix 2401 Improvements Needed in the Program for the Protection of Special Nuclear Material (Report) Protecting Special Nuclear Material in Transit: Improvements Made and Bt-
<ul> <li>Standards under Tulle V et Motor Vehicle Informations and Cost Savings Avi.</li> <li>89 Sieb: 592 Progress of Energy Conservation Pro- gram for Consumer Products Other Taska Autorisbilds</li> <li>89 Sieb: 593</li> </ul>		AEC Menuol Appendix 2001 Improvements Needed in the Program for the Protection of Special Nuclear Material (Report) Properties Special Nuclear Material in
<ul> <li>Stanfords under Tute V of Moor Vehiele Information and Cost/Stringp Act</li> <li>Stat. 592</li> <li>Program of Energy Construction Pro- gram. for Computer Produces Other Than Automobilis</li> <li>State. 535</li> <li>Obstruction of State Easter Conserve-</li> </ul>	294	AEC Manual Appendix 2401 Improvements Netedia in the Program for the Protection of Special Nuclear Material (Report) Proceeding Special Nuclear Material in Transit: Improvements Material in strang, Problema (Report)
<ul> <li>Standards under Tulle V et Motor Vehicle Informations and Cost Savings Avi.</li> <li>89 Sieb: 592 Progress of Energy Conservation Pro- gram for Consumer Products Other Taska Autorisbilds</li> <li>89 Sieb: 593</li> </ul>		AEC Manual Appendix 2401 Improvements Needed in the Program for the Prosettise of Special Naclear Material (Right) Proteoping Special Nuclear Misorchi in Tamini: Inprovements Material Material Information (Report) AEC Manual Appendix 2405
Sandhada under Title V of Moor Vidde Information and Cost Saving Adv 99 Set 7 50 Page 7 Consequences and the Saving Page 7 Consequence Produces Other Taan Astornabiles 99 Sets 735 Operation of State Energy Conserv- tion Plane	294	ACC Mesuel Appendix 2001 Improvements Needed in the Pergre- for the Provides of Special Nuclear Material (Royor) Protonig Special Nuclear Motorial in Tramit Improvements Mode and Ex- ising Problems (Royor) AEC Menucel Appendix 2005 Improvements Nucled in the Program
Sandhada under Title V of Morr Viddel Beformiss and Coul Baiving An 19 Juni 502 Progress of Energy Conservation Pro- gence for Consequence Produces Other Tan Automobilis 59 Sect. 32 Optimized Consequence Sector Conserva- bion Plana	294	AIC Manual Appendix 2001 Improvements Needed in the Program for the Protections of Special Nuclear Material (Report) Protocenig Special Nuclear Motorial is Transit: Inforcements Made and Ex- issing Problems (Report) AIC Manual Appendix 2405 Inforcements Needed in the Program for the Protection of Special Nuclear
Sandhada under Title V of Moor Vidde Information and Cost Saving Adv 99 Set 7 50 Page 7 Consequences and the Saving Page 7 Consequence Produces Other Taan Astornabiles 99 Sets 735 Operation of State Energy Conserv- tion Plane	294 295	AEC Mequal Appendix 2001 Improvements Needed in dis Program for the Proteins of Special Nucleus Matchia (Report) Proteining Special Nucleus Motorial is Tranai: Improvements Mode and Ex- lising Proteines (Report) AEC Monreal Appendix 2005 Improvement Needed in Nucleus Matchia (Report)
Sandhada under Title V of Morr Viddel Beformiss and Coul Baiving An 19 Juni 502 Progress of Energy Conservation Pro- gence for Consequence Produces Other Tan Automobilis 59 Sect. 32 Optimized Consequence Sector Conserva- bion Plana	294	AEC Maquel Appendix 2001 Improvements Needol no the Program for the Proventions of Special Noders Proseeing Special Nuclear Material Improvements Mode and Elu- isting Problems (Repvir) AEC Manuel Appendix 2005 Insprovements Node the Program for the Provession Of Special Notes Prostering Special Notes Material and Prostering Special Notes
Banholds and/or Tale V of Mean Visital Information and Coal Strategy Art 9 State, 52 Programs of Storagy Constrantial Pro- gram for Consearce Produces Other Tates Automations 9 State, 32 Operation of State Energy Conserva- tion Plane 9 State, 32 Interstein Energy Efficiency Program	294 295	AC Masuel Appendix 2011 Improvements Needed in the Program for the Provision of Spacial Needer Material (Bayer) Processing Special Needers Material in Transil Informents Makes and Ru- testing Patterine (Depret AC Manuel Appendix 2655 Informersmin Needed in the Program Material (Bayer) and Needer Material (Bayer) and Needer Material (Bayer) and Needer Material (Bayer).
Bandwids under Tale V 4 Meer Verhölt Informations of Cali Berlag Anti- 99 Stat. 92 Pragma K Borgy Casternion Prin- The Automobilis 99 Stat. 93 Operation of State Barty Connect- tion Press 99 Stat. 97 Industry Berlager Bilderag Program 10 Stat. 97	294 295	AEC Maquel Appendix 2001 Improvements Needol no the Program for the Proventions of Special Noders Proseeing Special Nuclear Material Improvements Mode and Elu- isting Problems (Repvir) AEC Manuel Appendix 2005 Insprovements Node the Program for the Provession Of Special Notes Prostering Special Notes Material and Prostering Special Notes
Bandhada under Tale V at Meery Weit Inhores and Cast Bandhad 19 See, 52 19 See, 51 10 Se	294 295	ALC Measuel Appendix 2001 Interpretation Network of the Papers Material (Append) National (Append) Prosenga Speak Nucleus Monthi in Transin (programms Mode and Ex- tissing pratients (Daynol RC Mancel Appendix 2005 Interpretations of Speak National Material (Append) Pratecting Speak National Material Transition (Speak National Material (Append) Pratecting Speak National Material Transition (Speak National Transition (Speak National
Banhelds ander Tale V et Meer Vielde Information and Cali Shripp Ant 9 Stat. 92 Program & Dangy Centersidion Pro- gram for Consensor Produces Other Then Antomatolis 9 Stat. 93 Oppreficia of State Backgy Contrav- tion Plane 9 Stat. 93 Industria Backgy Efficiency Program 9 Stat. 94 9 Stat. 95 Industria Backgy Efficiency Program 9 Stat. 95 9 Stat. 95 Industria Backgy Efficiency Program	294 295 296	ALC Messel Appendix 2021 The Theorem Nuclei of Spatial Theorem Marcail (Append) Marcail (Append) Messel (Append) Messel (Append) ALC Manual Appendix 2026 Interpretaming Area (Appendix Messel (Append) Nessensing Special Notice Messel Messel (Append) Nessensing Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel Messel
Bandhada under Tale V at Meery Weit Inhores and Cast Bandhad 19 See, 52 19 See, 51 10 Se	294 295	ALC Masuel Appendix 201 Biogroupsman Needo II, an Nagara Matazai (Appendix Nagara) (
Banchod unior Tai y at Many Maria 19 Sec. 521 Professional Constraints Pro- Paration of Constraints Produce Oder Tains Automities 91 Sec. 53 Opension of Sana Energy Constraints Professional Constraints Pro- lated Sana 537 Industrial Energy Efficiency Propens 19 Sec. 53 Industrial Energy Efficiency Propens 19 Sec. 531	294 295 296	AIC Mexical Appendix 5001 Improvements Neterial and Printer Material Agency Material Agency Processing Jarvala Neters Montel to Using Neterial Neters Montel Structure Using Network of Network Statistics Interpretation (Appendix Network Network Agency Material Agency Network Statistics (Network Network (Appendix Network Network Network (Appendix Network
Backedo Later Ta's y o' May And Carl State Carl State State Comment Packate Other Tak Alaminia (See State Comment Packate Other Tak Alaminia (See State State State State) State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State	294 295 296	ACC Measured Appendix 200 The first Appendix Appendix Theorem for the Appendix Appendix Theorem Measured Appendix Measured In Measured Appendix Appendix Measured Appendix M
Backdou, Jack T, Gir Y, et Mayor Art. 2010 (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (	294 295 296	ACC Measurement Appendix 4201 The Second Appendix Access of Pensitive for the Provensitive of Special Networks in the Second Appendix Network in the Second Appendix Access Access of Appendix Access Access of Appendix Access of Appendix Access of Appendix Access of Appendix Access of Appendix Access of Appendix Access of Appendix Access of Appendix Access of Appendix Access of Appendix Access of Appendix A
Banched Josef Tul y of Mont And 19 Dec 19 Program of Decog Construction Pro- Program of Decog Construction Pro- ting Construction Pro- ting Construction Pro- ting Construction Pro- ting Construction Pro- ting Construction Pro- Bance State Pro- Handral Energy Efficiency Program Pro- Bance State Pro- Handral Energy Efficiency Program Pro- Bance State Pro- State Pro- Para State Pro- Banca State Pro- Para State Pro- State Pro- Para State Pro- Para State Pro- State Pro- Para State Pro- State Pr	294 295 296 299	ACC Measured Appendix 200 The first Appendix Appendix Theorem for the Appendix Appendix Theorem Measured Appendix Measured In Measured Appendix Appendix Measured Appendix M
Backdou, Jack T, Gir Y, et Mayor Art. 2010 (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (	294 295 296	ACC Cancel Approach 2 4301 Intervention (1994) and a bit Present of the Approach 2 400 and 2 400 and 2 Marcel Approx (1994) and 2
Banchoda Janko T, Liv Y of Mayo And Hanna C, Karlan J, Liv Y and Mayo H Parts of Dengan C Castronical The Parts of Contrast: Photos Other Table Manufactures The Manufactures In Parts of Contrast: Photos Other Table Annual Parts In Parts II International Contrast Contrast- tion Parts II International Contrast Contrast Manufactures International Photos Manufactures The Contrast Photos Photos Other Photos Photos Photos Photos Other Photos Photos Photos Other Photos Photos Photos Photos Other Photos Photos Photos Photos Photos Photos Photos Photos Photos Photos Photos Photos Photos Photos Photos Photos Photos Photos Photos Photos	294 295 296 299	ALC Mouse Appender 2001 Manuel Appender 2004 March Porstander 40 Specifik Neuer March Porstander 40 Specifik Neuer March March Porstander 40 March Anton Appender 2004 Anton Appender 2004 Anto
Banchedo Janie T, Gir V, et Allow And Henrich Martin Martin Martin Martin Henrich Martin Martin Martin Henrich Martin Martin Henrich Marti	294 295 296 299	ACC Answer Appendix 2001 Management of Special Appendix Appendix Appendix Appendix Appendix Appendix Appendix Appendix Appendix Appendix Appendix Appendix Appendix A
Banchodo, Jaco T, Gir V, et Al Mono And I and Annota Can Marko And I and Annota Can Marko And I and Annota Can Marko And Annota Can Markowski And Annota Can Markowski Annot Markowski And Annota Canasa Annota Canasa Annota Canasa Annota Canasa Annota Canasa Annota Annota Anno Annota Canasa Annota Canasa Annota Canasa Annota Canasa Annota Canasa Annota Annota Annota Annota Anno Annota Anno Anno Annota Anno Anno Annota Anno Anno Annota Anno Annota Anno Annota Anno Annota Anno Annota Anno Annota Anno Annota Anno Anno Anno Anno Annota Anno Anno Anno Anno Anno Anno Anno Anno	294 295 296 291 297	ACC Annual Appendix 2013 Immediate Appendix 20 million and a second appendix 20 million and appendix 20 million and appendix 20 million appendix 20 million and appendix 20 million and appendix 20 million Appendix 20 million and appendix 20 million and appendix 20 million Appendix 20 million and appendix 20 million and appendix 20 million Appendix 20 million and appendix 20 million and appendix 20 million Appendix 20 million and appendix 20 million and
Banchedo Janie T, Gir V, et Allow And Henrich Martin Martin Martin Martin Henrich Martin Martin Martin Henrich Martin Martin Henrich Marti	294 295 296 299	ACC Answer Appendix 2001 Management of Special Appendix Appendix Appendix Appendix Appendix Appendix Appendix Appendix Appendix Appendix Appendix Appendix Appendix A
Banchodo, Jaco T, Gir V, et Al Mono And I and Annota Can Marko And I and Annota Can Marko And I and Annota Can Marko And Annota Can Markowski And Annota Can Markowski Annot Markowski And Annota Canasa Annota Canasa Annota Canasa Annota Canasa Annota Canasa Annota Annota Anno Annota Canasa Annota Canasa Annota Canasa Annota Canasa Annota Canasa Annota Annota Annota Annota Anno Annota Anno Anno Annota Anno Anno Annota Anno Anno Annota Anno Annota Anno Annota Anno Annota Anno Annota Anno Annota Anno Annota Anno Anno Anno Anno Annota Anno Anno Anno Anno Anno Anno Anno Anno	294 295 296 291 287 285	ACC Annual Appendix 2013 Immediate Appendix 20 million and a second appendix 20 million and appendix 20 million and appendix 20 million appendix 20 million and appendix 20 million and appendix 20 million Appendix 20 million and appendix 20 million and appendix 20 million Appendix 20 million and appendix 20 million and appendix 20 million Appendix 20 million and appendix 20 million and appendix 20 million Appendix 20 million and appendix 20 million and

nted Use by the Development stain Postel En-		8-114658 (1974) Patere Structure of the Ucassum En- cichenent Industry (Tennensy)
orted Use By the	<b>0</b> 87	8-116678 (1970) Lessing of Montrais on Public Lands (Report)
f Development rtag Fossil En-	687	8-163798 (1970) Revenues and Costs Allocated to Power Operators at Multiple-Purpose Pro- jects in the Sauthwestern Federal Power System (Report)
Pepeleum Re-	270	8-168450 (1974)
Potrolesen Re-	271	Presurement of Porcups and Darrestor Peneleum by Department of Defense (Report)
gress on Naval ade Reserves	242	8-173215 (1974) Energy Conservation at Government Field Installations Program and Problems (Report)
	499	10 C.F.R., eb. II Surgistry' Complances with Allocation
	40	and Pesce Regulations (Report)
	<i>a</i> 1	10 C.F.R. 40 Centern Actors That Can Be Takte to Help Importe This Nation's Ursean Poince (Report)
	472	10 C.F.R. 50 The Reacter Impection Program of the Atomic Entry Commission (Report)
Authorities		10 C.F.R. 70.12 Protecting Special Nuclear Material in
: 2401 In the Program Special Nuclear		Tranut: Improvements Made and Ea- isting Problems (Report)
lear Mstorisl is 8 Made and Ex-	604	10 C.F.R. 73 Improvements Needed in the Program
int	035	for the Protection of Special Nuclear Material (Report) Protecting Special Nuclear Material in
a 2405 in the Program Special Nuclear		Transf: Improvements Made and Ex- isting Problems (Report)
tear Material an	034	10 C.F.R. 212 Problems in Regulating Natural Gas
a Made and Ex- int/	<b>035</b>	Prices by the Federal Inergy Ad- ministration (Report)
ement		13 C.F.R. eb. 1, port 121 Effects of a Change in Size Standard for
mar's Views of ministration of ce Exploration, atom of Fublic		Small Balintas Petroleum Retinen (Report)
alijan de Polinie da (Report)	095	18 C.F.R. 3.735 Actions Taken by the Federal Power
		Commission on Prior Recommenda-

## celloneou

i,	AEC Magual Appendix 2401
	Improvements Needed in the Program
	for the Protection of Special Nucles.
	Material (Report)
	Protooting Special Nuclear Material in
	Transit: Incovements Made and Ex-
	isting Problems (Report)

#### al Appendix nents Necded Protection of el (Report) ng Special Nur

#### Land Manag \$ 3509 ent of the lat

#### 972)

073

de and Ea-035 he Program al Nuclear mu. Metodel in to and Ex-035 storal Oas hergy Adrendered for

n Retinets 149

Actions Taken by the Federal Power	
Commission on Prior Recommenda-	
tions Concentrating Regulation of the	
Natural Gas Indestry and Manage-	
ment of Internal Operations (Report)	- 14

#### Miscelingeous Authorities

10 0 5 0 154 02 Amount of Natural Car that Credit Re-Released from Federal Price Restlaisons upon Expression of Contracts from 1975 changes 1985 (Terramoteri Rebable Contract Sales Data Needed for Protecting Amounts of Natural Gas That Could Be Deregalated (Re-0.923) 25 C.F.R 171 Indust Natural Resources-Part II Casl, Otl, and Gas-Better Management Can Impione Development and increase income and Erreforment 25 C.F.R. 172 Index Natural Resources-Part II Coal, Oil, and Gas-Better Management Can Improve Development and increase income and Employment (Report) 25 C.F.R. 177 Administration of Regulations for Surface Explosures, Mirring, and Reclamation of Public and Indian Coat Lands (Broast) Department of the Internet's Views of Consisting on Administration of Regulations for Surface Exploration. Munne and Reclamento of Duble and Indun Coal Lands (Report) Increase Income and Emologram Berry 25 C.F.R. 183.45 Indus National Bearing the III Coal Oil and Gas-Better Manageman Can Improve Development and Increase income and Employment 30 C.F.R. 200 Interared (Report) 30 C F.R. 250 improved Inspection and Regulation Could Reduce the Populative of Oil spils on the Opter Centinental Shall (Result Orl and Gas Leasing on Federal Landa (Benew) 30 C.F.R. 250.43 Fallen up on Certain Manars Concern ing the frequencies and Regulation of Outer Commercial Shelf Oil Operatom (Report) 30 C.F.R. 258.97 Information on Centure Ou and Gas In-

41 CER 101-36 202 Responsed Linking Rate Increase by the Petermac Electric Power Competer /Recentl 117 43 CEP 23 C.F.K. 2a Admentization of Regulations for Sec-172 face Excloration, Minute, and Reclamatter of Poble and Indian Coal Lands (Reserve) 43 C F.R. 23 5(n) Department of the Interper's Vices of Comments on Administration of 225 Minung, and Reclamation of Public and Indian Coal Lands (Report) 43 C.F.R. 23.7, 23.8 Department of the Internor's Views of Comments on Adventitions of

093

211

163

## Regulations for Surface Excloration. Maties and Reclamation of Public and Indian Coal Lands (Report)

- 43 C.F.R. 3100 Leasing of Minershi on Public Lands (Report) Oil and Cas Learning on Federal Lands (Penant)
- 41 CER 2110 Oil and Gas Leasung on Foderal Londa (Report)
- 41 C.F.R. 3120 Oil and Gas Leasure on Federal Levels (Report)
- Leaning of Minerals on Pablic Lands Report Git and Gas Leasing on Federal Lands (Reave)
- 43 C.F.P. 3500 Leasing of Minerals on Public Lands (Report)
- Acress of the Federal Power Concretsion to Bareau of Reclamation Records to leasts Complance with the Federal Power Act (Lener)
- Small Basimens Contracts (Report)
  - troleven Reserves (Report)
- Executive Order 11222 Actons Taken by the Federal Power Commission on Prior Recommendations Concerning Regulation of the Natural Gas Industry and Management of Internal Operations (Report)

Everytive Order it748 Problems in the Federal Energy Office's Indementation of Emiliance Parenieum Alizantian Program at Remonel and State Levels (Report) Executive Order 11814 Ownlook for Extenti Goals to Aparlan ate Leaning of Orl and Oas Resources on the Outer Continental Shelf (Remert) Executive Order 11902 Assessment of United States and International Controls over the Peecoful Uses of Nacion Farry (Report) Federal Management Circular 74-1 Recray Conservation at Oovernmen Field Instaliations: Progress and Peoblems (Reput) 000 Federal Management Circular 74-1. as supplemented Program and Problems of the Gaucement's Litelity Conservation Program Report 021 E.P.C. Onloins 692 Actions Taken by the Federal Power Communition on Prior Recommendations Concerning Regulations of the Natural Gas lockstey and Management of Internal Operations (Reserv) 147 Need for Improving the Regulation of the Natural Gas Industry and Managertent of Internal Operations (Reaarti F.P.C. Onloine 609.9 Actions Taken by the Foderal Power Commission on Prior Recommendations Concerning Registences of the Natoral Gas locksstry and Management of Internal Operations (Report) 143 E.P.C. Onder 157 Management Insprovements Needed in the Federal Power Commission's Processing of Electric-Rate-Increase Cases (Report) F.P.C. Order 402 Actions Taken by the Federal Power Commission on Prior Recommends tions Concerning Regulation of the Nateral Gas Jacoury and Mananement of Internal Operations (Report) 142 F.P.C. Order 402-A Actions Taken by the Federal Power Commission on Prior Recommendanona Concerning Regulation of the Natural Ges Indentry and Managerment of Internal Operations (Report) 147 F.P.C. Order 402-402-A Need for Improving the Regulation of the Natural Gas Industry and Matagement of Internal Operacions (Re-Anert

Energy Digest SEPTEMBER 1977

113

210

43 C.F.R. 3300

79 Cong. Rec. 10379

Defense Procurement Circular 120

The Effects of On Price Increases on

Followap Review of the Naval Po-

Executive Order 3797-A

105

111

Role of Federal Ceal Resources or

Meeting Engrav Goals Needs to be Determined and the Lessing Process

Indun Natural Resources-Part II-Coll. Oil, and Cas-Better Managetreat Can impose Development and

Need for the Federal Power Commis-
sion to improve the Regulation of the
Natural Gas Industry and Manage-
ment of its Internal Operations (Tip-
amayi

114

10

114 F.P.C. Order 533 The Extension and Brokenmontal In-

the Natural Gas Industry and Management of Internal Operations (Report) Need for the Enformi Proper Commun-

sion to Improve the Regulation of the Natural Gas Industry and Management of Ias from all Operations (72)

Entry Conservation Practices En-

Management Improvements Needed m

the Entern) Power Commission's

Programme of Flestro-Rete-Increase

pact of Natural Gas Cantalesents day.

ize the Winter of 1975-76 (Reservi

Gas That Could Bo Deregulated (Re-

Violation of Colong Proces in a Defense Port Supply Center Sale (Resord)

The Efforts of Oil Proce Increases on

Small Bauness Contracts (Accord

California's Central Valley Project-

Proposed Power Rate Increase of the Burgau of Resignation's Central Val-

emach to Meeting Blectric Power Re-

Platorium Processing Facilities

Plens for Construction of a Magnetohy

drodynamics Test Fecility in Mon-

-Proposed Forer Rate Increase (Re-

14

29

pes (Teamous)

GSA Procurament Lattar 105

H.J. Ras. 47 (94th Cong.) Followup Review of the Naval Pe-

H. Rept. [89]-1409

port

H. Rept. 91-1219 Pacific Northwest Hydro-Thermal Power Program-A Reasonal Am

H. Rept. 92-1066 ERDA Report of Review of Design, Construction, and Flanning of

H. Rept. 92-1123

tana (Report)

10

troleum Reterves (Report)

ley Project (Tenimone)

quirements (Report)

F.P.C. v. Taxoco, 377 U.S. 33 (1964) Rehable Contract Sales Data Needed for Properting Amounts of Natural

courseof by States (Report)

(THEORY)

ERC Order 405

..... F.P.C. Order 513

and

38 F.R. 1052

Cases (Report)

#### F.P.C. Order 418

Actions Taken by the Federal Power Commission on Prior Recommendations Concerning, Regulation of the Natural Gas Industry and Managemont of Internal Operations (Report)

Need for Improving the Regulation of the Natural Gas Industry and Management of Internal Operations (Repon)

Need for the Pederal Power Commission to Improve the Regulation of the Natural Gas Industry and Management of in Internal Operations (*Tarhomeys*)

#### F.P.C. Order 431

Need for the Federal Power Commission to Esslante the Effectiveness of the Natural Oas Certailment Policy (Report)

#### F.P.C. Order 431-431-A

Nood for Improving the Regulation of the Natoral Gas Industry and Management of Internal Operations (Report)

#### F.P.C. Order 455

Actions Taken by the Federal Power Commission on Prior Recommendations Concerning Regulation of the Natural Gas Industry and Management of Internal Operations (Report) 147

#### F.P.C. Ordar 455-8

Actions Taken by the Federal Power Commission on Prior Recommendations Concerning Regulation of the Natural Gas Industry and Management of Internal Opmanons (Report)

#### F.P.C. Order 467-A

The Economic and Brownermental Impact of Natural Gas Cartulments during the Winter of 1975-76 (Report)

#### F.P.C. Order 467-8

The Economic and Environmental Import of Natural Ges Curtaineers during the Winter of 1975-76 (Report)

#### F.P.C. Order 491

Actions Taken by the Pederal Power Commission on Prior Recommendations Concerning Regulation of the Natural Gas Industry and Management of Internal Operations (Report) Need for Immovine the Resultation of

13	H. Rojet. 93-1301 Problems in Identifying, Developing, and Using Geothermal Resources (Repert)	199
14	H. Rept. 94-294 The Legality of the Reported Use by the Energy Research and Development Administration of Certain Possie Ea- ergy Funds (Letter)	087
м	H. Rept. 94-696 Plans for Construction of a Magnetoby- dradynamics Tost Facility in Mon- sana (Report)	0945
13	H. Ropt. 94-942 Management of and Plans for the Naval Potroleum Reserves <i>(Report)</i>	227
12	H. Res. 1189 (93rd Cong.) U.5 Financial Assessments in the Deve- lepment of Foreign Nuclear Energy Programs (Report)	23P
	H. Res. 1219 (93rd Cong.) U.S. Finanosal Assistance in the Devel- opment of Poreign Nuclear Energy Programs (Report)	239
2	H.R. 49 (94th Cong.) Pollosup Resear of the Naval Po- troleum Reserves (Repart)	220
3	H.R. 1614, § 208 (95th Cong.) Rational Exploration and Development of Outer Continental Shelf Resources (Textwoog)	230
0	H.R. 1614 (95th Cong.) Outer Cominental Shelf Sale #35: Problems Selecting and Evaluating Land to Lease (Report)	231
	H.R. 2385 (94th Cong.) Commans on the Energy Information Act (Letter)	170
1	H.R. 2650 (94th Cong.) Followup Review of the Navai Po- troleum Reserves (Report)	220
,	H.R. 2788 (84th Cang.) Revenues and Coast Alfonated to Power Operations at Multiple-Purpose Pro- jects in the Saubweiters Federal Power System (Report)	69%
,	H.R. 3474 (94th Cong.) Comments on the Administration's Proposed Synthetic Pach Commer- caluation Program (Report)	140
	H.R. 3474 (95th Cang.) Financing for Commercial-sized Demonstrations of Energy Technolo- sizes (Teatmoord)	141

#### Miscellareous Authorities

226

110

218

110

142

142

142

195

142

159

1.58

H.B. 5487 [94th Cons.] Review of the Presents and Problems of Resource Recovery Since the Pessage of the Researce Recovery Act of 1970 (Textrace) H.R. 5919 (94th Cons.) Followup Review of the Navel Petroldam Reserves (Resert) H.B. 4218 (94th Court.) Outer Constrant Shelf Oil and One Development, Interconfigures Needed is Determining Where to Lotse and at What Dollar Value (Senort) H.R. 6860 (94th Cong.) Analysis of the Energy, Recommit, and Budgetery Impacts of H.R. 6560 Sieff staded H &. 7680 (94th Cong.) Passociae Infrastogenery in Energy Development Areas of the Western States (Speech) H.R. Mdl (94th Cont.) Comments on Selected Aspects of the Administrative's Percentel for Govcrational Assistance to Private Urgaison Earnthwart Grouts (Report) H.R. 4524 (94th Cong.) Developing and Communicating Encarry Technology (Testinane) H.R. 10108 (94th Cont.) Devalutions and Contractionairs Eneray Technology (Teassonal H.R. 10267 (94th Cong.) Developing and Commercializing Enerry Technology (Technony) H.R. 11212 (93rd Cong.) Comments on H.R. 11212, 93rd Cengress, a Bill to Parther Research, Dovelopment, and Comparcial Demonstrations in Geothermal Energy (Letter) H.R. 11792 (94th Cons.) Developing and Commercializing Energy Technology (Tentward H.R. 11793 (93rd Cong.) Actions Needed on Improve Federal Bfforts in Collecting, Anslyzing, and Reparting Energy Data (Report) H.R. 11793 (94th Cong.) A Bit to Establish a National Energy Information System (Textinacy) Rosray Data Collection is the Federal Government (Teplevore)

```
H P. 11993 (93rd Cont.)
   Actions Needed to benotive Folecal life
    facts in Collection, Analyzing, and
                                          140
     Reporting Energy Data (Report)
H.R. 11903 (94th Court-)
   Energy Data Collectors in the Federal
    Gevennett (Tetiona)
                                          101
H 8 12112 (94th Cont.)
   Abgrantose Fosts for Avance (H.S.
     12112) /Testerey
   Bedgeung of Federal Financial Incen-
    Gves for linergy Development (Ter-
                                          150
   Developing and Commerciations En-
    erev Technology (Texasan)
   An Evaluation of Proposed Pederal As-
    estants for Estador Competentia
     antion of Emerging Energy
     Technologies (Report)
   An Evaluation of Propised Federal As-
    astance for Financing Commercial
     astion of Errerging Emergy
     Technologies (Tennesey)
                                          155
H.P. 12112 (95th Cong.)
   Pinanoting for Commercial-sized
    Demonstrations of Beergy Technole-
    gies (Testimons)
H.R. 12113 (94th Ceng.)
   The Legality of the Reported Lise by the
     Energy Research and Development
     Admicigrantice of Certain Possil Jin-
                                          687
    erry Punds (Letter)
H.R. 12169 (94th Cong.)
   Fronty Conservation Financies (Ten-
     (CRAW)
H.R. 12534 (93rd Cang.)
   Proposed Energy Inventory Act of
     1974 (Letter)
H.R. 14168 ($3rd Cong.)
   Pacific Northwest Hydre-Thermal
    Power Program-A Regional Ap-
     prouch to Meeting Electric Power Re-
    quirements (Report)
H.R. 14205 (94th Comp.)
   Energy Conservation Financing (Ta-
     (interv)
Mandatory Petroleum Allocation
  Reputations, § 211,13(c)
   Review of the Operatives Division of
    the Federal Energy Administration
OMB Circular A-25
   Leasing of Minerals on Public Lands
     Record
```

OMB Circular A-76 Information on Selected Aspects of the

	Power Operations of Tennesson Val- lay Authonsy (Report)	167
1	OMB Circular A-94, Revised Connects in Proposid Legislation to Charge Basis for Government Charge	
,	for Usaalum Eanthment Services (Report)	131
•	42 Op. Att'y Gan. 10 Agroement between the Secretary of the Interior and Offenia of the State of Usah Permissing to Od Shele Leases (Lease)	209
	Outer Continental Shelf Order No. 7 Pellowep on Cettele Motien Concern- ing the Inspection and Regulation of Outer Consistential Shelf Oli Open- sions (Report)	258
2	Outer Castinental Skelf Order No. 8 Followsp on Ceruin Matters Conces- ing the Inspection and Regulation of Otter Conferental Shelf Oil Oper- dens (Report)	308
	Outer Continental Shelf Order No. 11 Pollowup an Certain Mittlers Contern- say the importion and Ragalasm of Oster Continenal Shelf Oil Opera- jons (Report)	206
,	Petroleum Allocation and Price Regulations, § 211,13 Suppliers' Compliance with Allocation and Price Regulations (Report)	109
,	Petroleum Allocation and Price Regulations, § 211.102 Suppliers' Compliance with Allocation and Price Regulations (Report)	109
2	Phillips Petroleum Company v. Wisconsin (U.S., 1954) Reliable Contrast State Data Needed for Projecting Amounts of Neouni Cas That Could Be Deergeland (Ar- pert)	172
	Presidential Directive Energy Conservation: Foderal Beergy Management Program	292
,	Presidential Proclamation 3279 Pauls Coefficients for Account of the Virgin labous for Refunds from Im- part Locence Fees (Report)	124
s	Prasidential Proclamation 4210 Prada Credited to the Account of the Vegin Islands for Refunds from In- port License Pees (Report)	124
'	Presidential Proclamation 4227 Pands Coefficient to the Account of the Virgin latence for Refunds from im- part Licence Fees (Report)	124

#### Energy Digest SEPTEMBER 1977

S. 1864 (96th Cons.)

215

215

101

122

142

055

Public Lond					
Followup	Review	of the	Navel	Pe-	
troleum	Reserves	(Report	/		220

Reich v. Commissionse of Internel Revenue, 454 F. 2d 1157 (9th Cir. 1972) Problems in Identifying, Developing, and Using Coethermal Resources (Report)

5.J. Res. 13 (94th Cong.) Pollowup Roview of the Naval Petroleum Reserves (Report)

S.J. Ros. 176 (93rd Cong.) Followup Review of the Neval Petroleum Reserves (Report)

 Ropt. 84-1764
 Revenues and Costs Allocated to Power Operations at Multiple-Purpose Projects in the Southwessern Poderal Power System (Report)

#### Rapt. 86-470 Repayment Requirements of the Pederal Systement in the Tennessee Valby Authority's Electron Power System (Report)

 Rept. 92-802
 ERDA Report of Review of Design, Construction, and Planning of Futurism Processing Nuclines

#### Rapt. 93-903 Pleas for Construction of a Megnetohydrodynemics Test Facility in Montrue (Recet)

- Rept. 93-1069
   Plans for Construction of a Magnetohydrodynamics Test Pacifity in Montana (Report)
- 9 (95th Cong.) Onter Continental Shelf Sale #35: Problems Solecting and Evaluating Land to Lease (Report)
- 27 (94th Cong.) Energy Policy Decisionersking, Organinston, and National Energy Goals (Report)
- 70 (92ed Cong.) Actions Needed to improve Pederal Rfferts in Collecting, Assipting, and Reporting Banry, Data (Aspert) Commonts on the Blargy Information Act (Letter)
- 391 (94th Geng.) Pitandia: Infrastructure in Energy Development Areas of the Western States (Speech)

## Energy Digest SEPTEMBER 1977

- 426 (96th Cong.) Development of the Oxter Contasenial Shoff News) Fuel Resources (Tentimesy)
   Other Continental Shoff Oil and Gas Development: Impreventeds Needed is Determining When to Lease ad a What Delater Value (Aperd)
- 521 (94th Cong.) Development of the Oster Commonial Shelf Yomal Paul Resources (Teramony)

100

220

094

221

193

175

- Penanciag Infrastructure in Energy Development Areas of the Western States (Speech)
- Outer Continental Shelf Oil and Gas Development: Improvements Needed in Determining Where to Lease and at What Dollar Value (*Report*)
- Outer Continental Shelf Sale #35. Problems Selecting and Evaluating Land to Lease (Report)
- \$86 (94th Cong.) Development of the Outer Consistent Stell Fossil Fuel Resources (7thsheary) Pastosing Infrastructure is Energy Development Aceas of the Western
- States (Speech) 5. 591 (95th Cong.)
- Energy Policy Documentsking, Organization, and National Energy Goals (Report) Energy Reorganization Legislation (Temmony)
- 5. 594 (94th Cong.) Pollowup Review of the Naval Petroloum Reserves (Reveri)
- 740 (94th Cong.) Development of the Outer Continental Shelf Possil Fuel Resources (Tectamony)
- 826 (95th Cong.) Energy Policy Decisternaling, Organination, and National Beergy Goals (Report) Energy Reorganization Legislators (Protocog)
- 973 (94th Cong.) Developing and Commerculizing Boergy Technology (Tamesony)
- 1040 (Vird Cong.) Porther Action Needed on Recommendistices for Improving the Administration of Pederal Coal-Learing Program (Report)
  - 1439 (Mith Cong.) Development of Interaptury Relationships in the Regulation of Notlear Materials and Pacifities (Report)

The Energy Information Act, 5 1864 (Telemony)	174
Improvements Soft Needed in Federal Energy Data Collection, Analysis, and Reporting (Report)	153
5. 2035 (94th Cong.) Budgeting of Federal Pinancial Inter-	
tives for Energy Development (Tea- timany) Commons on Selected Aspects of the	150
Administration's Proposal for Gov- eramoni Assistance to Private Unarres Encoherent Groups (Report)	145
Evaluation of the Administration's Proposal for Government Assistance to Proves Upnear Enrohment	
Groups (Report) Selected Aspects of Nuclear Power- plant Reliability and Economics (Re- sort)	134
S. 2176 (93rd Cong.)	
Actions Needed to Improve Federal Ef- forms in Collecting, Analyzing, and Reporting Energy Data (Report)	159
Commute on the Energy Information Act (Lener)	178
<ol> <li>2176 (94th Cong.) A Bill to Establish a National Energy Isformation System (Testimory)         </li> </ol>	158
<ol> <li>2213 (94th Cong.) The Federal Income Taxes of Class A and B Electric Utilities (Report)</li> </ol>	185
5. 2532 (94th Cong.) An Evaluation of Proposed Federal As- sistance for Praescing Commerciali-	
zation of Emerging Scorgy Technologies (Report) Budgeting of Pederal Parazolal Incen- tives for Scorgy Development (Pe-	151
Among) Comments on the Administration's	150
Proposed Synthetic Fuels Commer- abilitation Program (Report) Developing and Commercializing En-	1.40
orgy Technology (Technology) Developing and Commerciallizing Ex-	142
ergy Technology (Failman)	146
Legality of Printing Gatoline Rationing Coupons by Pederal Borrgy Adminis- tration (Letter)	163
S. 2726 (94th Cong.)	

Beergy Policy Decisionmaking, Organ-	
ization, and National Energy Ocels	
(Report)	193

S. 2776 (93ed Cong.)

Actions Needed to Improve Federal Elforts in Collecting, Analysing, and Reparting Swergy Data (Report)

<ol> <li>2776 (92rd Cong.) Comments on the Energy Information Act (Letter)</li> </ol>	170
<ol> <li>2776 (94th Cang.) A BH to Establish a National Energy Information System (<i>Technology</i>) Energy Data Collection in the Pederal Government (<i>Technology</i>)</li> </ol>	158 187
<ol> <li>2782 (93rd Cong.) Actions Needed to Insprove Pederal Ef- forts in Collecting, Analyzing, and Reporting Reargy Data (Aspert)</li> </ol>	159
<ol> <li>2782 (94th Cong.) A BH to Brahlish a National Energy Information System (Textboog) Energy Data Collocition in the Federal Government (Textbeorg)</li> </ol>	158 157
5. 2872 (96th Cong.) A Bil to Extend the Pederal Energy Afathkanston Act of 1974 (Re- trange) Impersace of Financial Data in Zwal- sufing Pederal Energy Programs (Speech)	179
<ol> <li>3087 (Mih Cong.) Develaping and Contrastruking En- orgy Technology (Terawany)</li> </ol>	142
<ol> <li>3151 (93rd Cang.) Renew of Compliant Concerning the Markinery Petroleum Allocation Program and the Regulation of Po- trolium Pricing (Report)</li> </ol>	102
<ol> <li>3338 (84th Cong.) Revenues and Contr Allocated to Flower Operations at Multiple-Purpose Pro- jects in the Southwattern Potenal Power System (Report)</li> </ol>	096
<ol> <li>3362 (93rd Cong.) Pacific Nucliment Hydro-Thermal Power Program-A Regional Ap- proach to Meeting Electron Power Re- quirtments. (Report)</li> </ol>	161

# CONGRESSIONAL INDEX

Includes entries under relevant congressional bodies and individual Representatives and Senators to whom documents are addressed. Entries are grouped under the following headings:

Congress (as a whole) House of Representatives Senate Joint Committees Congressional Agencies Members ([ndividual]

## Sample entry:

Congressional Recipient Senate Committee on Government	Title
Operations	
U.S. Nuclear Non-Proliferation Policy	
Type of Publication(Report)	248 Accession Number

## Congress

#### Congress

Assessment of United States and Inter- national Controls over the Peaceful	
Uses of Nuclear Energy (Report)	24
Bulk Fuels Need To Be Better Managed (Report)	01
Capability of the Neval Petroleum and Oil Shale Reserves to Meet Emer-	
genery Oil Needs (Report) Certain Actions That Can Be Taken to	07
Help Improve This Nation's Unious Pieture (Report)	06
The Costal Zons Massgrment Pro- gram An Uncertain Future (Report)	
Commoduly Data Screenerics and Min-	160
eval Totimates Considerations for Commercialiums	264
the Liquid Metal Part Brooder Rosc- tor (Report)	
Cost and Schedule Estimates for the Nation's First Liquid Motal Fast	
Breeder Reactor Demonstration Poworplant (Report)	043
Domestot Energy Resource and Re- serve Estimates-Uses, Liethations, and Nooled Data (Report)	233
Effect and Operation of Interstate Completa Relating to Natural Gas	287
ents to Develop Two Nuclear Con- cepts That Could Greatly Impowe That Country's Pitture Energy Situa-	
tion (Report)	04
Employee Diseleases under the Ee- ergy Policy and Conservation Act	26
Energy Conservation at Government	265
Pield Instalistons Progress and Problems (Report)	028
Energy Conservation: Federal Reargy Management Program	292
Energy Information Reported to Con- aress as Required by Fublic Law 93-	
319	28
An Evaluation of Proposed Federal As- sistance for Preaming Commercial-	

	zation of Energing Energy Technologues (Report)	151
	Evaluation of the Publication and Dis- tribution of "Shedding Light on Facts about Nuclear Energy" (Re-	
0	parti Evaluation of the States of the Past	064
н	Flux Test Facility Program (Report)	065
	Federal Coal Research-Status and	
2	Troblems to Be Resolved (Report) Federal Energy Administration An-	CEO
	nusl Report to the President and Congress	290
1	The Federal Energy Administration Quarterly Report on Private Grico- actes and Refrass	284
σ	Federal Energy Guddhnes Weekly	350
	Supplement	282
0	Federal Energy Management Program Annual Report	293
٠	Federal Hydrorleetric Plants Can In- ercase Power Sales (Report)	201
	Financial Disclosures by Employees Performing Functions under Energy Policy and Conservation Act	287
,	How the Foderal Government Pertim- pate in Accepting Affecting the En-	
3	ergy Resources of the United States (Report)	078
,	Improvenents Needed in the Potenal Enhanced Oil and Gas Recovery Research, Development, and Demotstration Program (Report)	105
	Improvements Needed in the Program for the Protection of Special Nuclear	
8	Material (Report)	604
3	Improvements Still Needed in Federal Energy Data Collection, Analysis, and Reporting (Report)	182
	Issues Needing Attention in Develop- ing the Strategic Petroleum Reserve (Report)	
2	Issues Related to Foreign Sources of Oil for the United States (Report)	225
	The Liquid Metal Past Breeder Rese- tor ProgramPast, Persont, and Fa-	
5	ture (Report) The Liquid Metal Pest Breeder Reac- ton: Promises and Uncertainities	045

(Shaff shady)	0.47
Management of and Plans for the Na- val Potrologen Reserves (Report)	227
Mining and Masorala Policy	267
Monthly Energy Review	281
Monthly Petroleum Statistics Report	285
National Energy Policy: An Agenda for Analysis (Equart)	191
National Standards Needed for Resi- dential Energy Conservation (Re- port)	019
Natural Gas Shoringe: The Role of In- ported Lapartied Natural Gas (Re- port)	243
Onter Costinuated Shelf Oll and Gas Development: Improvements Needed in Desermining Where to	
Lease and at What Dollar Value (Re- port)	218
Outer Continental Shelf Sale #35: Problems Selecting and Evaluating Land to Lease (Report)	221
Parufie Northwest Eydeo/Thermal Power Program-A Regional Ap- proach is Meeting Electric Power Requirements (Report)	861
Policits and Program Being Deve- loped To Bayand Procurement of Products Containing Recycled Materials (Report)	023
Poor Management of a Nuclear Light Water Reactor Safety Project (Re- perd)	063
Problems in Identifying, Developing, and Using Geothermal Resources (Report)	199
Problems in Licensing Hydroelectric Projects (Report)	132
Procedures for Evaluating Ressonable- noss of Petroleum Pupelins Rates Need Imploying (Report)	094
Progress and Problems in Developing Nucleur and Other Experimental Techniques for Recovering Natural Gis is the Rocky Monstalia Area	
(Report) Progress of Energy Conservation Pro-	077
program as Energy Construction Pro- gram for Consumer Products Other Than Automobiles	294

#### Congrass

Reducing Nuclear Powerplant Lead- times: Many Obstacles Remain (Re-	
part)	047
Reports of Costs of Contain Streetures on Nongeregramment Waters	298
Review of the 1974 Project Indepted- once Eveloption System: (Report)	178
Role of Poderel Coal Resources in Macting Energy Goals Needs to be Determined and the Leasing Process	224
Improved (Report)	250
Shartoaceauge in the Systems Used to Control and Protect Highly Danger- oux Nuclear Material (Report)	662
Southeastern Federal Power Program- Pennoial Management and Pro- gram Operations (Report)	174
	12.4
Status of the Grand Couloo-Raver Transmission Line Project (Report)	184
Scatter: Petrolean Reserve Plan	287
Trans-Alaska Oil PipelateProgress of Onstruction through November 1975 (Record	
Using Solid Waste to Conserve Re-	
sources and to Create Energy (Re- pert)	013

#### House of Representatives

House of Representatives

Clark of the House Operation of State Energy Conserva- tion Plans	295
Speaker of the Hears Extension of a Refined Petroleum Product from the Mandstory Pe- troleum Allocation and Price Regu- lations	291
Revenues and Costs Allocated to Power Operations at Multiple-Pur- pose Projects in the Southwestern	
Poleral Power System (Report)	096

House Committees

House Committee on Agriculture	
Coal Lease Data System	329
<b>Zoorgy Plins Distribution</b>	424
BRDA Headquarters Technical La-	
beary	- 493
Financial Information System	401
Land Base System	333
Long Management System	333
National Natural Resources Library and Information Systems (NNRL33)	
	319
Oll Shale/Bostoelte Title Clearance	
	330
Over Concluental Shelf Post-Sale Sys-	
lon	331

#### Transportation on the Administration of the Netural Gas Populine Safety Act of 1968 277 Commodity Data Summaries and Minscal Sationatas Report on Fast Flax Test Facility 351 HUO Independent Agencies Subcournities Energy Data System (ECS) 341 Spil Prevention Control and Coastermeasure System (SPCCS) 3/2 Technical Asymtesce Oata System 345 (TADS) Interior Subcommittee Appelerand Outer Continental Shell Development (Tennosu) 216 Accouncibile Classification Data Rane 245 Creater for Energy Studies (CES) مە Coal Data Rest 373 Coal Lease Data System 229 Comprehensive Human Resources Data System (CHRDS) 365 A Conceptual Cost for Conceptual Cost Estimates of Steam Electric Power Plants (Conorot) a Costracts Information System (CIS) 400 Costrolled Fosion Aspetic Data Ozш Cast and Pricing System Coupled Brergy System - Breeamic Modela **Criticality Data Crater** 445 Crade Oil and Natural Gas Production 392 Model Crude Oil Bee/Sell Program 350 Crude Oil Entitlements (Equalizatinz) 352 Crude Oil First Purabaser 355 Crade OII Pricing Model (DCROPS) 107 Drilling Equipment Production Survey Dynamic Input-Output Linear Programming Model for Regional Znorgy lepact Analysis (DIOLP) Ecological Sciences Information Conter (ISIC) 445 Electrical Pioancial Forrorating Model (BS8 Model, EUFINANCE) Electric Rate Ocusanizzation Data Syston 345 Energy Absences for Policy Analysis (EAPA) Energy Films Distribution 44 Energy Research, Development, and 40 Demonstration Investory Energy Resource Data Systems **Environmental Information Analysis** Center (EIAC) 44 Inviconmental Researce Conter 40 (ERC) SRDA Roogy Research Abstracts -08 (ERA) SRDA Headquarters Technical Li-422 brary

House Committee on Appropriations Annual Report of the Secretary of

#### Congressionel Index

FEA Crude/Transportation Model	
	399
FEA Data Distosary	368
FEA Household Energy Expenditure	
Model (HEEM)	393
F2A Household Discrey Survey	394
FEA Oil Import System	354
Federal Energy Conservation Perfor-	
manoo System	343
Federal Energy Information Locator	
System (FEILS)	366
Financial Information System	421
Fiscal Impact of Energy Price Changes	
on State and Local Government	
Perchases of Goods and Services	3\$5
Fossil Energy Update	436
Ocologic Surveys, Investigations, and	
Research Program	327
Income Distribution Impact Model	390
Information Conter for Energy Safety	
(IC25)	433
International Coal Supply Model	337
Informational Recegy Evaluation Sys-	
tem (IEES)	354
International OI Supply Model	388
Joint FEA/BOM Petroleum Reporting	
System	375
Land and Mineral Conservation Infor-	326
subted System	
Land Base System	332
Lotte Management System	333
Liquid Metal Fast Breeder Resourt	
Puel-Cladding Information Center (LMFBR)	450
Liquid Motal Pest Breeder Resotor Pitest Parameter Information Sys-	
ten	425
Major Fuel Burning Installation-Early	
Planning Process Identification	
(SPPE)	
	355
Major Fuel Burning Installations	
Major Fuel Burning Installations (MFBI)	355 355
Major Poel Burneng Installations (MFBI) Mandetory Oil Imports Project	355
Major Poel Burrang installations (MFBI) Mandetory Oil Imports Project (MO(P)	355 353
Major Fuel Bunang Installations (MFBB) Mandetsety Oil Imports Project (MOIP) Market Shares System	355
Major Poel Bureng installations (MFBB) Mathetistry Oil Imports Project (MODP) Market Shares System Middle Distillate Price Monitoring	355 253 370
Major Pool Bunning Installations (MPBI) Mandenary Oil Imports Project (MOSP) Market Shares System Middle Distillate Price Monitoring System	355 353 370 347
Major Puel Bursing installations (MFBI) Maskitisty Oil Imports Project (MORP) Market Shares System Middle Distillate Price Monitoring System Misteria Land Assessment	355 253 370
Major Pool Bunning Installations (MPBI) Mandenary Oil Imports Project (MOSP) Market Shares System Middle Distillate Price Monitoring System	355 353 370 347 321
Major Pool Burrang Installations (MFBI) Matidetary Oil Imports Project (MOIP) Marker Shares System Middle Distillats Price Monitorneg System Misteral Land Assessment Misteral Land Assessment Misteral InformationSystem (MINFO)	355 353 370 347 321 322
Major Poel Bourng Installations (MFBI) Mashinary Oli Importa Project (MOIP) Markat Sharet System Middle DialBate Price Modiforneg System Mintenla Hoftensatice System (MINFO) Minenal Hoftensatice System (MINFO)	355 350 370 347 321 322 322 323
Major Poel Borring Installations (MFBI) Mandatary Oil Imports Project (MO39) Markut Shares System Middle Dalifisht Price Monitoring System Mistrai Lord Assessment Mistrai Lord Assessment Mistrai Lord Assessment Mistrai Lord Assessment Mistrai Lord Assessment Mistrai Cond (MMAC)	355 353 370 347 321 322
Major Pool Buesna installations (MPBI) Mankinary Oil Imports Project (MOIP) Malace Database price Monitoring Malace Database price Monitoring Misrimi Lond Autosamont Misrimi Lond Autosamont Misrimi Lond Autosamont Misrima Research Nasonat Onai Model (RMAC) Nasionat Decay Information Constr	355 350 370 347 321 322 323 379
Major Poel Borring Installations (MFBI) Mandatary Oil Imports Project (MO39) Markut Shares System Middle Dalifisht Price Monitoring System Mistrai Lord Assessment Mistrai Lord Assessment Mistrai Lord Assessment Mistrai Lord Assessment Mistrai Lord Assessment Mistrai Cond (MMAC)	355 350 370 347 321 322 322 323
Major Pud Bereing Institution (MPB) Kandingy Oli Impete Project (MOIP) Menica Dance System Malder Dathter Price Menioning System Manuel Indexettion Fysice (MONFO) Manuel Indexettion System (MONFO) Manuel Anderes Cast (MAAC) Nisteral Cast Model (RMAC) Nisteral Cast Model (RMAC) Nisteral Cast Indexettion Endexet (NNIC)	355 350 370 347 321 322 323 379 367
Major Pad Borong Installations (MP3B) Kandinory Oli Imperia Project (MOIP) Merick Sharet System Milder Datitise Price Mesilonneg System Mitterial Land Anseancest Mitterial Information System (MINFO) Missag Research Nunstaal Catal Media (RMAC) Nunstaal Catal Media (RMAC) Nunstaal Catal Media (RMAC)	355 350 370 347 321 322 323 379
Major Pud Buerarg Installation (MATB) Maniper Oil Inspeat Project Markes Samer System Markes Land Association Markes Land Association Markes Land Association Markes Land Association Markes Land Association Markes (California Information Re- National Longy Information Constr (NEC) National Longy Information Re- National Networks Information Re- National Networks Information Re-	355 350 370 347 321 322 323 379 367
Major Pud Bearing Installation (MSTB) Maniferry Ol Engrein Project Marine Samer System Milde Dathten Pole Monitor Samer System Marine Lined Anseances Marine Lined Anseances Marine Carbon Mark (RMAC) Ming Carbon Monitor (RMAC) Ming Carbon Monitor Chatter (NNC) Statistical Construmtion Chatter (NNC)	355 350 347 321 322 323 379 367 451
Major Pud Buerarg Installation (MATB) Maniper Oil Inspeat Project Markes Samer System Markes Land Association Markes Land Association Markes Land Association Markes Land Association Markes Land Association Markes (California Information Re- National Longy Information Constr (NEC) National Longy Information Re- National Networks Information Re- National Networks Information Re-	355 350 370 347 321 322 323 379 367
Majer Fuel Reserves Trendbelow (2018) Markowski (Larperte Project (MARC) Markowski (Larperte Project (MARC) Markowski (Larperte Markowski (Larperte Markowski) Markowski (Larperte Markowski (Larperte Markows	355 350 347 321 322 323 379 367 451
Maje from Rucces installations (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R) (JO2R)	355 350 347 321 322 323 379 367 451
Majer Fuel Reserves Trendbelow (2018) Markowski (Larperte Project (MARC) Markowski (Larperte Project (MARC) Markowski (Larperte Markowski (Larperte Markowski) Markowski (Larperte Markowski (Larperte Markows	355 330 347 321 322 323 379 367 451 319
Haje for Round investions (DDB) (DDB) (DDB) (DDB)(DDB)(DDB) (DDB)(DDB)	355 350 347 321 322 323 379 367 451
http://prof locure_investions/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boots/ boo	3355 3370 347 321 322 323 379 367 451 319
Mag, Dryd. Roung Insofteniou Backeniory Oli Leoper Project Mol. Dry. Bytem Backenior Die Honoren Backenio Heiner Schreiter, Sterner Backenio Heiner Schreiter, Markenio Backenio Heiner Schreiter, Markenio Markenio Heiner Schreiter, Schreiter, Markenio Heiner, Sterkenio Heiner, Sterner Cherkenioner, Netzurg auf Information Heiners (NSLLS) Reiner Greher Schreiter, Sterkenio Backenio Heiner, Sterkenio Heiner, Sterkenio Heiner, Sterkenio Heiner, Sterkenio Heiner, Sterkenio Heiner, Sterkenio Heiner, Sterkenio Heiner, Sterkenio Heiner, Sterkenio Heiner, Backenio Heiner, Sterkenio Heiner, Sterkenio Heiner, Sterkenin, Sterkenio Heiner, Sterkenio Heiner, Sterkenio Heiner, Ster	355 330 347 321 322 323 379 367 451 319
Hán from Roung Interfaction (2023) (2023) (2023) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2024) (2	3355 2370 347 3271 3272 3273 379 367 451 319 428 422
http://poil found investions/ http://www.investigation.com/ http://www.investigation.com/ benetics/ benetics/ benetics/ http://www.investigation.com/ benetics/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigation.com/ http://www.investigatio	355 330 347 321 322 322 327 327 327 327 327 327 327 4451 319 428 422 225
<ul> <li>Majo, Jong Route, Bunchtmon, Bandmarn, Oli, Langer, Privite Moll, Die Sparse Bande, Datter Nein, Manhare, Banden Datter Nein, Manhare, Bannah Hennerkster, Bander, Markel Mannah Hennerkster, Bander, Naturet, Cark Mold, (BAAC)</li> <li>Niemer, Marken, Niemer, Lafrey, Niemer, Jahren, Schwart, Status, Cark Mold, (BAAC)</li> <li>Niemer, Marken, Date, Eastrage, Niemer, Ware, Date, Eastrage, Niemer, Ware, Date, Eastrage, Niemer, Ware, Date, Eastrage,</li> </ul>	335 330 347 321 322 323 379 367 451 319 428 428 422 325 557
high physic locuse investions including of locuse https:// boling.com/ boling/ boling/ boling/ https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// https:// http	355 330 347 321 322 322 327 327 327 327 327 327 327 4451 319 428 422 225
<ul> <li>Majo, Jong Route, Bunchtmon, Bandmarn, Oli, Langer, Privite Moll, Die Sparse Bande, Datter Nein, Manhare, Banden Datter Nein, Manhare, Bannah Hennerkster, Bander, Markel Mannah Hennerkster, Bander, Naturet, Cark Mold, (BAAC)</li> <li>Niemer, Marken, Niemer, Lafrey, Niemer, Jahren, Schwart, Status, Cark Mold, (BAAC)</li> <li>Niemer, Marken, Date, Eastrage, Niemer, Ware, Date, Eastrage, Niemer, Ware, Date, Eastrage, Niemer, Ware, Date, Eastrage,</li> </ul>	335 330 347 321 322 323 379 367 451 319 428 428 422 325 557

## Congressional Index

Nevada Appleed Ecology Information	
Creter	452
Nuclear Material Management Plan	42.6
OECh Energy Demand Model	386
Ori and Gas Reserves System	372
<b>Gil and Gas Supply Model</b>	378
Oil Shale/Bestonte Title Clearance	330
Outer Cretonental Shelf Past-Sale Sei-	330
icen	201
Plume Model	352
Project Conserve	344
Project Independence Evaluation Sys-	281
tem (PIES) Project Operations System (POS)	351
Propane/Butane Allocation System	349
Reactor Information File	-10
RECON (REmote CONsole)	440
Refinery Cost Passthrough	348
Regional Econometric Denased Model and Arto Simulisuon Model (RD4)	
and Alto Million Mobil (RD4)	26.5
Regional Industrial Multiplier System	
(RIMS)	392
Research Information Management System (RIMS)	22.4
Reserves Allocation and Mine Cast	
Medel (RAMC)	380
Sevenasce Tax Model	396
Short Term Coal Demand Percessing Model	376
Ston Term Perroleum Demand Fore-	2/0
ensing Medel	383
Site Durnhumon Model	354
Secto-Roseonic Environmental Desi- ographic Information System	
ographic Information System (SEEDIS)	434
Setar Brergy Update	437
Similagic Patroleum Resorves Pro- gram-Wide System (SPR)	
gram-Wide System (SPR)	363
Stripmung and Land Reclamation In- formation System	405
Subgary L	369
Technical Books and Monographs	612
Technical Information Center (TIC)	
Transfer Prizing System	439 351
Trends in Refiners Construe and Unit-	391
zation of Petroleum Refinence in the	
United States and Poreign Refinery Exporting Centers	360
Underground Gas Stocage System	271
U.S. Uranium Resources and Supply	
	-62
Public Works Subcommittee	400
Bookkeeping System Balk Electric Power System Relabil-	420
sty state of the s	404
Center for Energy Studies (CES)	443
A Computer Code for Conceptual Coat Estamates of Steam Electric Power	
Estenates of Steam Electric Power Plants (Concept)	431
Contracts Information System (CIS)	
	430
Controlled Fusion Atomic Data Can-	ш
ter	***
Corporate, Financial, and Economic Information File (RISCEID)	402
Coupled Energy System - Beonome	

Ecological Sciences Information Con-	
ter (ESIC)	44
Electric Power Fuel and Environmen-	
tal Analyses	405
Electric Regulatory Activities	408
Energy Abstracts for Policy Analysis (EAPA)	441
Energy Fritos Dutribution	424
Energy Research, Development, and	
Demonstration inventory	40
Environmental Information Analysia Center (EIAC)	44
Environmental Resource Conter	
(ERC)	449
ERDA Energy Research Abstracts (ERA)	-08
ERDA Headquarters Technical Li-	
brary	-423
Pinanzisi Information System	421
Possil Energy Update	436
FPC Budget Files FPC Library	400
Gas Supply Indicators	403
Hydro and Electric Recurring Data	
Reports	435
Hydroclectric Power Resources of the	407
United Status (HPR) Information Center for Energy Selects	4,0
(ICES)	433
Library of Excerted Electric Power	
Contracta	334
Liquid Metal Past Recoder Resour Pael-Cladding Information Caster	
(LMFBR)	A50
Liquid Mitial Fast Breeder Researce	
Plant Parameter Information Sys-	425
National Geothermal Information Re-	~>
source (GRID)	451
National Plan for Energy Research,	
Development, and Demonstration Creating Energy Cheeses for the Po-	
lure	428
National Solar Heating and Cooling In-	
formation Conter	432
Natural Gas Company Operating In- formation File	413
Natural Gas Distribution Model	419
Natural Gas Industry Evaluation Sys-	
tens	412
Natural Gas Regulation System (Pro- ducer Rate)	414
ductr Xate) Natural Gas Regulation System (Fipe-	414
line Rate)	414
Natural Gas Regulation System (Pro-	
deter Certificate) Natural Gas Regulation System (Pipe-	415
lise Certificate)	417
Nevada Applied Scolegy Information	
Center	452
Nuclear Material Management Plan	424
Official PPC Files and Records	401
Pianning and Bellang System	339
Plant Operation and Power Schedul-	
ing	335
	306
Power Flow Program Power Surveys and Systems Busics-	

Models

Criticality Data Center

#### House Compittees

427	Reactor Information File	æ
643	Real-Time Operations, Dispatch and Scheduling (RODS)	337
445	RECON (REmote CONsole)	440
	Repayment Requirements of the Fed-	
405	eral investment in the Tennessee Valley Authority's Electric Power	
408	System (Report)	099
441	Secio-Economic Environmental	
424	Domographic Information System (SEEDIS)	424
	Solar Energy Update	437
417	Special Reports Issued by the FPC and	
448	Federal Power Commission Publica- lights	411
	Status of Pending Hydroeleotoic Ap-	
449	plications	410
-01	Stripmourg and Lond Registration In- formation System	435
	Supervisery Control and Data Acquisi-	+35
423	tion System (SCADA)	333
421	Technical Books and Menographs	442
435	Technical Information Center (TIC)	437
418	U.S. Unition Resources and Supply	
403		432
435	Heuse Committee on Armed	
407	Services	
	All Purchases and Condemnation Pro- coordings Regarding the Naval Pe-	
433	troleum and Oil Shale Reserves	259
324	Annual Report to Coogress on Neval	
2.04	Petroleum and Oil Shale Reserves	252
	Contracts Information System (CIS)	101
A50		433
	Energy Films Distribution	424
425	ERDA Headquetters Technical Li- brary	m
451	Finmeial Information System	421
401	Protection of Oil Reserves	261
	Quarterly Report of Production from	
459	the Neval Petroleum and OI Shalo Reserves	258
-10	Recycling of Motorials	260
432	Solid Waste Massgement, Collection,	
413	Disposal Resource Recource, Rece-	257
419	cling Program	25/
412	House Committee on Banking.	
<i>.</i>	Currency and Housing	
414	Economic Stabilization Subcommittee Developing and Commercializing En-	
415	ergy Technology (Testonsey)	146
***	Energy Conservation Financing (Tar-	
417	OB303	027
452		
	House Cammittee on Banking,	
426	Finance and Urben Affairs	
401	Report on Solar Energy Demonstra-	
339	kon	263
335	Special Report on Solar Heating and Cooling Demonstration Program	264
204	Submission of U.S.S.R. Brenzy,	244
	Related Transactions for Congres- ssonal Review	
409	SOUTH REALES	280

House Consulties on Education and	
Kohor Miseral Land Assessment	32)
Minerala Information System	- 40
(MINFO)	322 323
Minung Research Research Joformasion Management	323
System (RIMS)	324
House Committee on Government	
Operations Assessi Report of the Secretary of	
Transportation on the Administra- tion of the Natural Gas Pspeline Safety Act of 1968	277
Automobile Classification Data Baso	
Coal Date Base	345
Comprehensive Human Reserves	
Data System (CHRDS) Cost and Pricing System	365
Crade Ori and Natural Oas Productors	
Model	378
Crude Oil Bay/Soll Program. Crude Oil Ecofferents (Econtina-	350
tree)	352
Crude Oil First Furchtster	355
Crude Oil Prizing Model (DCROPS)	397
Drilling Equipment Production Sur-	359
	2.09
Dynamic Inper-Outpit Linear Pro- gramming Model for Regional En- orgy Impact Analysis (DIOLP)	391
The Economic and Environmental In- pact of Natural Gas Curtailments	
dening the Watter of 1975-76 (Re-	
part) Material Presential Partonating Model	082
(BSB Model EUFINANCE)	377
Electric Rate Demonstration Otta Sys- torn	346
Energy Policy Decision making, Or-	
generation, and National Energy Goals (Report)	193
PEA Crede/Transportation Model	399
FEA Data Dictomery FEA Household Energy Expenditure	368
Model (HEEM)	393
FEA Household Basegy Survey	394
FEA Oil Impart System Federal Energy Cesservation Perfor-	354
macon System	343
Pederal Energy Information Locator System (FEILS)	366
Federal Energy Management Program Annual Report	293
Fiscal Inspect of Energy Price Charges on State and Local Government	
Parchases of Goods and Services	385
Implemient of Dengalsting the Price of Natural Ges (Report)	135
Income Distribution Inspect Model	390
International Coal Supply Model	367
International Reergy Evaluation Sys-	
tem (IEES) International Oil Supply Model	384
Joint PBA/BOM Petroleum Reporting	
System Major Fatel Burning Installation-Barty	375
Major Fuel Running Installation-Harly Planning Process Meetification	

	356
(MF31) Mandacary Cul Imports Project	220
(MOIP) OI Tayons Project	353
Market Shares System	370
Middle Distillent Price Monitoring	
System	247
National Cost Model (RMAC)	379
National Energy Information Center	
(NIEC)	347
Natural Gas Custaliments	357
Natural Oas Shortage Model	382
Neoclassical Regionel Growth and En-	
ergy Price Model	389
OECD Energy Domand Model	355
Osl and Gas Raserves System	372
Ogl and Gas Supply Model	378
Plane Model	345
Prepart Consorve	344
Project Independence Evaluation Sys- tem (PIES)	381
Project Operations System (POS)	361
Prepare/Batane Allocation System	349
Refinery Cost Pasithrough	343
Regional Econometric Demand Model	
and Auto Simulation Model	
(RD4)	385
Regional Industrial Mehipher System	
(RIMS)	392
Report to the President by the Nuclear	218
Regulatory Communicon Resources Allocation and Mine Cost	3.8
Model (RAMC)	390
Severance Tax Model	375
Short Term Coel Domand Forecasting	
Model	376
Short Term Petroleum Derrand Fore-	
casting Model	263
Sate Distribution Model	354
Strategic Potrologen Reserves Pro- gram-Wide System (SPR)	363
Subpert L	367
Transfer Prining System	351
Trends in Rolinery Capacity and Util-	221
zation of Petroleum Rollacries in the United States and Possion Refinery	
United States and Possign Refinary Exporting Centers	360
United States and Possign Refinary	360 371
United States and Possign Refinary Exporting Conters Underground Gas Storage System	
United States and Possign Refinery Exporting Conters Underground Gas Storage System Commerce, Consumer and Monortory	
United States and Forsign Refinery Experteng Centers Underground Gas Storage System Consumers, Consumer and Mosetery Affalie Subcompilies The Cost of United Concern's Actions	
United States and Foreign Refinery Experting Conters Underground Gas Storage System Commerce, Constance and Monetery Affelts Subcompilies The Cost of Living Conterl's Actions in Astrone Than Cost Increases for	
United Savas and Ponign Refinery Expering Conters Underground Gas Storage System Centeries, Consumer and Modestery Affairs Subcomplifies The Cost of Living Concert's Actions to Astere That Cost Interests for Petroleon Products Were Made in	
United Same and Ponign Refinary Especing Conters Underground Gas Storage System Centeries, Consume and Mastery Affairs Subcombine The Cost of Living Concerts Actions to Aster That Cost Interests for Petrobecen Produces Wave Model in Accerdance while Petroleum Pricing	371
United Sause and Pouging Refinery Espering Contents Underground Gas Storage System Cententees, Constant and Massiery Affaire Sadewandities The Cost of Living Concert's Actions to Aster of The Cost Increases for Petrolecare Products Were Marks in Accordance with Petrolecare Pricing Regulations (Report)	
United Sause and Pouging Refinery Enspering Control Number Ventreprotein Constraints Statement Constraints, Constant and Mosetery Affairs Subcompilies The Cost of Living Consent's Actions to Assere That Cost Interfaces for Particulation Products Wave Made In Activition Products Wave Made In Activition Products Wave Made In Regulations (Report Conservation, Science and Natured	371
United Sause and Pouge Refinery Espering Centers Underground Gas Storage System Constant, Constant and Constant Affairs Sciences and Measury Affairs Sciences and The Cost of Leng Cospect's Actions to Astere This Cesi Increases for Petrolecer Pouge Costant Were Mode in Accentions with Penetesian Prising Regulations (Report) Conservation, Sciences the Reservers Sciences pathon	371
United States and Possign Refnery Espectrag Centers Underground Gas Storage System Centerse, Consistent and Andre Storage The Cent of Lining Center's Ancients to Astern Than Cent Handler Postform Postant Were Made in Accentages with Parelson Polisie Regulations (Report Resources Scholarge) and Marting Resources Scholarge/The Resources Scholarge/The Resources Scholarge/The	371
United Sames and Possign Refnery Eustering Catents Underground Gas Storage System Converses, Consequence and Mastery Afford Schemanise The Cost of Linger and Mastery Participant Possign Concells Academic Participant Possign Wei Marie Accessed Starting and Participant Research and Participant Possign Accessed Table Topics Accessed Table Topics	371
build States and Posigin Scharp Elistering Catego System Underground Gas Storage System Contention of Scharper and Mastery Affalts Scharpenfilter The Cest of Ling Catego Andreas Petrotecan Positica Catego Andreas Petrotecan Positica Were Maste In Acterdator Wild Renginam Pricise Catego Catego and Scharper Registricios (Report Research Scharper/Jee Albert Research Scharper/Jee Albert Research Scharper/Jee Albert Research Research Rover Constri- dents Darses of Rodentilos Re- ferent Darses and Rodentilos Re-	371
build States and Paulign Scharp Elseveral Catta Marger System Undergraves Gas Marger System Comment, Consequer and Mastery Affair Datemains Comment, Consequer and Mastery Affair Datemains Comment, Consequer and Mastery Affair Datemains Assessed on Consequer and Consequer Sequences Postantia Consecution Affaired Sequences And Consequer Sequences And Consequer Assessed on Parland Post Assessed on Parland Post Assessed on Parland Post Assessed on Parland Scharphiles And Assessed on Parland Scharphiles And Assessed on Parlandon Scharphiles Assessed Scharphiles Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assess	371
build States and Paulign Scharp Elseveral Catta Marger System Undergraves Gas Marger System Comment, Consequer and Mastery Affair Datemains Comment, Consequer and Mastery Affair Datemains Comment, Consequer and Mastery Affair Datemains Assessed on Consequer and Consequer Sequences Postantia Consecution Affaired Sequences And Consequer Sequences And Consequer Assessed on Parland Post Assessed on Parland Post Assessed on Parland Post Assessed on Parland Scharphiles And Assessed on Parland Scharphiles And Assessed on Parlandon Scharphiles Assessed Scharphiles Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assesses Assess	371
Dund Sam and Pougle Allowy Buyeres Catus Underground Cas Morrer Bysom Comments and Cas Morrer Bysom Affair Analysis Antonia Affair Analysis Antonia Postance The Masser Postance The Case Letteres for Postance Postance Were Most Regulations (Regul Samonia Case Case Case Case Regulations (Regul Samonia Case) Comments, European Regulations (Regul Samonia Case) Comments, Case Regulations (Regul Samonia Case) Comments, Case Regulations (Regul Samonia Case) Comments (Regul Samonia Case) Case (Regul Samonia C	371
Durch States and Postige Riftmay Undergraved Cain Storage Values Comment, Comment and Monistry The Cost of Unig Concerts for the Assertation of Unig Concerts for the Assertation Value Postiger Tricke Republicat (2004) Concerts (States) Concerts for the Republicat (2004) Concerts (States) Concerts for Heat The Concerts (States) Concerts (States) Concert	371 106 143
Used States and Poingie Richard Usedprotect of a Strate System Userprotect of a Strate System Userprotect of a Strate System States The Cost Using Concerns in the Action of Long Concerns in Accordance with Persistem Frider Experision Strates The State Accordance with Persistem Frider Experision Strates The Strates Accordance with Persistem Frider Experision Strates The Strates Accordance with Persistem Frider Experision Strates Strates Strates Accordance of The Strates for Strates form to Experise and States of Strates Accordance of The Strates for Strates form to Experise and Strates Strates Accordance of The Strates for Strates Strates Strates and Strates Strates Accordance of The Strates Strates Accordance o	371 106 143 093
Dunck states user lange Reference Uniterprotein Galance Systems Uniterprotein Galance Systems Consume, Collinger and Datasette Medica Sciences The Cent Libral Consert Action Dataset Systems Constructions Produce Were Medic In Cent Libral Consert Actionation Were Medica Conservation Learge Networks Conservation Learge Networks Conservation Learge Networks Conservation Learge Networks Conservation Learge Networks and Conservation Learge Networks Conservation Lea	371 106 143
Used States and Poingie Richard Usedprotect of a Strate System Userprotect of a Strate System Userprotect of a Strate System States The Cost Using Concerns in the Action of Long Concerns in Accordance with Persistem Frider Experision Strates The State Accordance with Persistem Frider Experision Strates The Strates Accordance with Persistem Frider Experision Strates The Strates Accordance with Persistem Frider Experision Strates Strates Strates Accordance of The Strates for Strates form to Experise and States of Strates Accordance of The Strates for Strates form to Experise and Strates Strates Accordance of The Strates for Strates Strates Strates and Strates Strates Accordance of The Strates Strates Accordance o	371 106 143 093

(EPPE)

118

Management Program Functiona (Report)	668
Comments of the Interpr's Views of Comments on Admensionation of Regulations for Steface Exploration,	
Mining, and Reclamation of Public and Induan Coal Lands (Report)	095
Foderal Efforts to Conserve Entrgy (Report)	010
Foliowup on Curtain Matters Concern- ing the Inspection and Regulation of Outer Continenal Shelf Oil Opera- tionen (Report)	208
The Goological Survey's Instequent Action on Resonmendations Cro- errning Importion and Regulation of Onter Continuental Skell Oil Oper- sions (Report)	222
Improved Inspection and Regulation Could Reduce the Possibility of Cul- spills on the Outer Contynential Shelf (Report)	100
Issues Related to the Closing of the Nuclear Fiel Stringers, Iacon- posited, Reprocessing Plant at West Valley, New York (Report)	070
Inness Related to the Closing of the Nuclear Fuel Services, Inc., Reproc- essing Plant at West Valloy, New York (Platimony)	071
Problems Caused by Coal Mining Near Federal Reservair Projects (Report)	075
Problems Caused by Coal Mining Noar Foderal Reserveir Projects (Tra- tionary)	076
Progress and Problems of the Govern- ment's Uplity Conservation Pro- gram (Report)	021
Proposed Power Rate Increase of the Baroau of Reclamation's Central Valley Propert (Traitmong)	101
Recovery of Expenses from Cleanup and Investigation of Oul Spills (Lev- ter)	107
House Committee on Interior and Insular Affairs	
Activities of Each Goothermel Demonstration Project	307
Activities of Solar Energy Coardisa- tion and Management Propost Activities of the Geothermal Coards-	502
nation and Management Project All Parchetes and Condemotion Pro-	306
coedings Regarding the Naval Pe- troleton and Oil Shele Reserves	259
Annual Ropert on the Columbus River Power System Annual Report to Congress on Naval	275
Petroleom and Oil Shale Reserves	262
Bulk Electric Power System Rollabil- ity	404
Coal Lease Data System Commodity Data Summaries and Min-	319
oral Betimates Companiatory Royality Agreements	266 272
Consolidated Firancial Statement of the Pederal Columbia River Power System	274
Corporate, Parancial, and Bennomic Information File (RISCEID)	402
The Economic Impact of Entryy Ar-	

# Energy Digest SEPTEMBER 1977

tions

#### Congressionol Index

Effect and Operation of Interstate Compacts Relating to Network	
Gm	297
Electric Power Puel and Environmen- tal Applayees	405
Electric Regulatory Acovines	408
Employee Disclosures under the Ea- ergy Policy and Construation Act	265
Energy Revoluce Data Systems	200
Exploration of National Periodeum Re-	270
serve in Alaska Federal Helium Program	320
Financial Report on the Geethermal	
Resources Development Fend	109
FPC Badget Fries FPC Library	400
Gas Supply Industors	400
Geologie Surveys, Investigations, and Retearch Program	327
Grants of Rights-of-Way for Piptinet through Foderal Lands	273
Hydro and Electric Recurring Data	
Reports	406
Hydroelectric Power Resources of the United States (HPR)	407
Industrial Energy Efficiently Pro- gram	296
Land and Mascral Conservation Infor-	
mation System Land Base System	326
Loise Management System	300
Library of Executed Electric Power	
Contracts Mineral Land Assessment	334 321
Minerals Information System (MINFO)	321
Mining and Minerala Policy	267
Miring Research	323
Netional Natural Resources Library and Information Systems (NNRLIS)	219
National Plus for Energy Research,	
Development and Demonstration Planning and Analysis	305
National Program for Solar Heating and Coolest.	
National Water Data Eachange	
(NAWDEX) Natural Gas Company Operating In-	325
formation File	413
Natural Gas Industry Evaluation Sys- temi	412
Natural Clas Regulations System (Pro- diater Raie)	414
Natural Gas Regulation System (Pipe- line Rate)	416
Natural Gas Regulation System (Pro- dater Centificate)	415
Natural Gas Regulation System (Pipa- ting Contificate)	417
Official PPC Files and Records	401
Oil Shale/Bentente Tide Clearance	320
Operation of State Energy Conterva- tion Plant	255
Owter Controental Shelf Past-Sale Sys-	351
Outer Continental Shelf Sale #35	
Problems Selecting and Evaluating Lond to Lonse (Report)	231

# Energy Digest SEPTEMBER 1977

Pleas Operation and Power Scholal-	
ing	335
Power Flow Program	335
Power Production at Pederal Dama	
Could Be Increased by Modernizing Turbiecs and Ownerstors (Report)	205
Power Serveys and Systems Evalua-	200
from the servey's and bythems invente-	402
Progress of and Foture Plans for Ea-	
planation of National Percoleum Re-	
torne it Alaska	271
Progress of Energy Conservation Pre-	
	294
Thus Astomobiles	
Protection of Oil Reserves	261
Real-Time Operations, Dispatch and Schedulate (RODS)	337
Refunds on Outer Continential Shelf	
Lesses	267
Reports of Costs of Centein Structures	
on Nongovorreport Waters	298
Report to the Constrain of Matters	
Contained as the Helson Act	268
Research Information Management	
System (RIMS)	324
Resource Recovery and Source Reduc-	279
tion	209
Special Reports Issued by the FPC and Pederal Power Otronissian Publica-	
tous	401
Status of Posiding Hydroclettrit Ap-	
placations	410
Strategy: Petroleum Reserve Plen	297
Supervisory Control and Data Acquisi-	
tion System (SCADA)	335
An Unclustified Digest of a Chamiled Report Estated "Safety and Tran-	
Report Estated "Safety and Tran- sportation Safeguards at Rocky Plats	
Nuclear Weapons Place" (Report)	047
Mises and Mising Subcemulities Department of the Intenar's Proce- dures for Approving Coal Mising	
Department of the latenur's Proce-	
Plans (Report)	225
Development of Poderal Coal Ro-	
sources (Testimory)	223
iouse Committee on Interactional	
Relations	
Alterative of Litablup Farichment	
Services to Full Foreign and	
Domestic Nuclear Reactors (Report)	
	228
Review of Voluntary Agreement and Plan of Action To Implement the In-	
commond Energy Program	276
Role of the International Acomic En-	
orgy Agency to Stillgoarding No- clear Material (Report)	
clear Material (Report)	240
U.S. Finantial Assestance in the Devel-	
opmost of Poengo Nuclear Xnargy Programs (Report)	222
115 International Marley Suferrands	2.07
Rights: Are They Being Effectively	
Rights: Are They Being Effectively Exercised? (Unclassified Dupos)	
(Report)	243
U.S. Neolesr Non-Problemation Pakey	
(Report)	248
Europe and the Middle East	
pendency of the Proc World on Mid-	
die East Oil (Repart)	234

Planning and Briting System

### House Committees

339	Hause Cammittee on Interstate and Foreign Commerce	
335	Action Proposed Concerning Conflict	
335	of Interest	298
	Annual Report of the Secretary of Transportation on the Administra-	
205	tion of the Natural Gas Fipeline Selety Act of 1968	227
409	Automobile Classification Data Base	345
971	Bulk Electric Power System Reliabil-	404
	Coal Data Base	373
294	Conservents on the Snergy Information Act (Letter)	170
251	Connershensive Human Resources	365
337	Data System (CHRDS) Corporate, Pitaneaul, and Economic	
269	Information File (RISCEID) Cost and Prining System	402 374
298	Crude Oil and Natural Gas Production Model	390
263	Coude Oil Buy/Soll Program	350
	Crude Oil Emillements (Equality- troa)	352
324	Crude Oil Parst Parchaser	355
279	Creds Oil Prising Model (DCROPS)	397
	Domestic Energy Resource and Re-	
411	serve Estimates-Uses, Limitations, and Neefed Data (Report)	233
410	Drilling Equipment Production Sur- vey	357
	Dynamic Janua, Output Lanaar Pro-	
338	gearming Model for Regional En- orgy Impact Analysis (DIOLP)	391
	Electronal Pinanceal Processing Model (BSB Model EUPTNANCE)	377
067	Electro Power Fool and Edviconmen- tal Analyses	405
	Electric Rate Demonstration Data Sys- lam	346
228	Electric Regulatory Activities	408
	Energy Data System (EDS)	241
223	Exemption of a Refined Potroleum Product from the Mandetery Pe- troleum Allocation and Price Regu-	
	lations	291 399
	FEA Crude/Transportation Model FEA Data Dictionary	359
	FEA Household Energy Expenditure	
228	Model (HEEM)	390 394
	FEA Hauschold Energy Survey FEA Dd Import System	394
276	Pedaral Energy Conservation Peder- manca System	343
240	Pederal Energy Information Locator	
	System (PEILS) Pireasis1 Disclosures by Employees	356
239	Performing Functions under Energy Policy and Conservation Act	287
	Fiscal Impact of Entray Price Changes	
243	on State and Local Government Purchases of Goods and Services	395
	PTC Budget Files	400
248	PPC Library	418
	Ges Supply Indicators Hydro and Electric Recurring Data	403
	Reports	405
214	Hydrodectric Power Resources of the United States (UPR)	407

#### House Complitiess

Income Databution Impact Model	390 387
International Cosl Supply Model International Energy Evaluation Sys-	387
tem (IEBS)	384
International Oil Supply Model Issues Needing Attention to Develop-	388
ing the Strategic Petroleum Reserve	
(Report) Joint FEA/BOM Petroleura Reporting	090
System	375
Major Poel Barrong Installation-Early	
Planning Process Identification (EPPE)	355
Major Fost Barning Installations	
(MFBI) Mandatory Oil Imports Project	354
(MOIP)	353
Market Sharea System Middle Disbilate Price Monitoring	270
Middle Disbliste Price Monitoring System	30
National Coal Model (RMAC)	379
National Energy Information Center (NEIC)	357
Natural Gas Company Operating In-	~
formation Pile	413
Natural Gas Curtailments Natural Gas Distribution Model	357 419
Natural Gas Indestry Evaluation Sap-	419
tem	412
Natural Gas Regulatores System (Pro- ducer Rate)	414
Natural Gas Regulation System (Pipe-	
ine Rete) Natural Gas Regulation System (Pro-	416
forer Ceruficate)	415
Netural Gas Regulation System (Pape- late Certificate)	417
Natural Gas Shortage Model	382
Nonclassical Regional Growth and En-	
ergy Price Model OECD Energy Demand Model	389
Official FPC Files and Records	401
Oil and Gas Reserves System	372
Oil and Gas Supply Model	378
Petroleum Market Sharea Plante Model	362
Power Surveys and Systems Evalua-	263
tion	409
Project Conserve Project Independence Evaluation Sys-	344
ten (FIES)	381
Project Operations System (POS)	351
Propage/Batting Allocation System Propaged Energy Investory Act of	349
1974 (Letter)	160
Refinery Cost Passtbrough	348
Regional Econometric Demand Model and Auto Struttation Model	
(RD4)	385
Regional Industrial Multiplier System (RIMS)	эn
Reserves Allocation and Mice Cost	
Model (RAMC)	380
Review of Average Fuel Reconsery Standards under Tide V of Motor	
Vehicle Information and Cost Sav-	
lags Act Severation Tax Model	278
Short Term Coal Demand Pareenting	
Model	376

eating Model	383
See Distribution Model	364
Special Reports Issued by the FPC and Pederal Power Commission Publica-	
bors	40
Spill Prevention Cantrol and Counter-	
measure System (SPCC3)	242
States of Pending Hydroelectric Ap-	
perticus	410
Strattgic Potroloum Reserves Pro-	
gentt-Wide System (SPR)	363
Sabrart L	269
Technical Assistance Data System	
(TADS)	340
Transfer Pricing System	351
Trends in Refinery Capacity and Unli-	
zation of Potroleum Refigences in the	
United Statts and Foreign Refinery	
Exporting Centers	360
Underground Gas Storage System	371
Energy and Power Subcommittee	
Abecastive Energy Proposals (Fer-	
Alexany)	145
Amount of Natural Gas that Could Be	
Released from Federal Price Regula-	
tions upon Expiration of Contracts from 1975 through 1985 (Textspory)	
neu iste usaign ises (ranspige	137
Developing and Communicalitizing En-	
ergy Technology (Technoly)	145
The Economic and Environmental In-	
pact of Natural Gas Cuttalizents	
During the Winter of 1975-76 (Ter-	
oriend	060
An Evaluation of Proposed Federal As-	
sistance for Pleancing Commerciali-	
zation of Emerging Energy	
Technologies (Testinony)	152
The Implications of Deregulating the	
Frice of Natural Gas (Testmany)	136
Review of FPC and FEA Actions in	
Assessing the Impact of Natural Gas	
Curtaineens during the Winter of	
1976-77 (Letter)	089
Oversight and investigations	
Sebeggerittes	
Actions Taken by the Federal Power	
Commission on Prior Recommenda-	
tions Concerning Regulation of the	
Natural Gas Industry and Manage-	
ment of Internal Operations (Report)	
	147
An Evaluation of the Federal Power	
Commission's Rulemaking on Utili-	
tics' Construction Work in Progress (Report)	279
	217
Need for the Paderal Power Cornels- sion to Improve the Regulation of	
the Natural Gos Industry and Man-	
agement of its Internal Operations	
(Testimate)	114
Transportation and Commerce	
Subcommittee	
Review of the Progress and Problems	
of Resource Recovery Since the Pas-	
sign of the Resource Recovery Act of 1970 (Testimory)	016

-

#### Congressional Index

House Committee on Meechant Marine and Fisheries The Cosstal Zone Managament Pro- gram: An Uncertain Puttern (Report)	
	187
Report to the Congress on Coastal Zone Management	255
House Committee on Public Works and Transportation	
Annual Report on the Columbia River Power System	275
Bookkeeping System	420
Consolidated Financial Statement of the Foderal Columbia Rever Power System	274
Plenning and Billing System	339
Technical Assistance Data System (TADS)	340
House Committee on Stiente and Technology	
Croster for Energy Studies (CES) Comments on H.R. 11212, 92rd Con- gress, # Bill to Parther Research, Development, and Commercial Demostrations in Grothermal En-	40
engy (Letter) A Computer Code for Conceptual Cost Estimates of Stam Electric Power	196
Plans (Concept) Contracts Information System (CIS)	431
Controlled Paulon Atomic Data Con-	430 444
Coupled Energy System - Economic Models	429
Criticality Data Center	445
Ecological Sciences Information Cen- ter (ESIC) The Economic Impact of Energy Ac-	446
	255
Energy Abstracts for Policy Analysis (EAPA)	441
Entrgy Films Distribution	44
Entryy Research, Development, and Demonstration leventory Environmental information Analysis	40
Center (ELAC)	448
Environmental Resource Center (ERC)	417
ERDA Energy Research Abstracts (ERA)	438
ERDA Headquarters Technical Li- brary	433
An Evaluation of Proposed Federal As- instance for Financing Commerciali- nation of Emerging Energy	
Technologies (Testieway) Pederal Efforts to Improve the Fuel	152
Economy of New Automobiles (Re- port)	690
The Federal Wind Energy Program (Report)	206
Pinencial Information System	421
Promoting for Commercial-Sized Demonstrations of Energy Tech-	
nologies (Terrenous)	141
Posili Energy Program Report Posili Energy Updece	311 436
Improvements Needed in the Faderal Enhanced Oil and Gas Recovery Estranch Development, and En-	

# Congressional Index

Demonstration Program (Report)
industrial Energy Efficiency Pro- gram
Information Centre for Energy Safety (ICE5)
Laquid Metal Fast Breader Reactor Feel-Cladding Inturnations Center (LMFBR)
Ligad Metal Pasi Breader Reactor Plant Parameter Information Sys- tem
Natural Geothermal information Re- scoree (GR10)
National Plan for Energy Research, Development, and Demonstration Creating Energy Choices for the Fu- tuce
National Solar Heating and Cooling In- formation Center
Neveda Applied Ecology Information Conter
Nuclear Material Management Plan
Opportunities to improve Planning for Solar Energy Research and Deve- lopment (Report)
Proposed Establishment of Joint Fed- eral-Industry Nonnucleur Corpora- tion
Reactor Information File RECON (REmote CONsole)
Reducing Nuclear Powerplant Lead-
ternes Many Obstacles Remitin (Re- powt)
Socio-Economic Environtmental Ocinographic Information System (SEE 015)
Solar Energy Update
Stripmenting and Land Reclamation In- formation System
Technical Books and Monographs Technical Information Center (TIC)
U.S. Universe Resources and Supply
Ways to Strengthen Congressional Control of Energy Construction Projects Other Than Nisclear (Re- part)
Energy Responds, Development and Demonstration (Repail Fuels) Subcommittee
Comments on the Administration's Proposed Synthesic Fuels Commer- vialization Program (Report)
Contracting Out Basic Flarming and Management Program Functions (Report)
The Legality of the Reported Use by the Energy Research and Develop- ment Administration of Certaan Pos- sil Energy Funda (Letter)
Ecorgy Research, Development and
Demonstration Subcommittee International Cooperation in Energy Restarch and Development (Teo-
Among/ Review of Selected Federal and Private
Solar Barry Activities (Report)

155	House Committee on Small Business	
296	Activities of Regulatory Agencies Subcommittee	
433	Energy Data Collection in the Poducal Govecnment (Tazamaopi	157
450	House Committee on the Judiciary Review of Voluntary Agreement and Plan of Action To Invientent the To-	
425	tenational Energy Program	276
451	House Committee on Ways and Maans Alternative Energy Proposals Deve- loped by the General Accounting	
428	Office in Response to Contrassional Inquiries Proposals and Supporting	
422	Analyses (Testanory) Commodity Data Steromacies and Min- erbi Estatutori	166
452	En Elemen	200
426	House Select Committee on Outer Continented Shelf Rational Exploration and Develop-	
202	most of Outer Continental Shelf Re- sources (Testanoy)	230
315		
407		
440	Senate	
065	Senate	
	President of the Secola Execution of a Refined Petroloum	
424		
407	ucleon Alloenton and Price Regu- lations	291
46		
442	Seculary of the Secole Operation of State Energy Conserva-	
432	ton Plan	295
432		
192	Senate Committees	
	Senete Committee on Aeronoutical and Space Sciences	
	Ad Not Asrospots Technology and	
140	Netistal Needs Subsemultee Alastative Pack for Avapan (H.R. (2012) (Partierag)	164
088		
	Senots Committee on Agriculture and Ferestry ERDA Readquarters Technical Li-	
887	heavy presidences received the	423
	Senate Committee on Agriculture, Nutrition, and Forestry	
	Coal Losse Data System	327
245	Energy Plima Distribution	404
	Financial Information System Land Base System	421

Loss: Management System	533
National National Resources Library	
and Information Systems	
(NNRLIS)	319
Ol Shalo/Bestonte Title Clearance	
	220
Outer Continental Shelf Post-Sole Sys- tem	331
1000	201
Senote Committee on	
Appropriotions	
Annual Report of the Specatory of Transportation on the Administra-	
tion of the Natural Gas Prpeline	
Sujery Act of 1968	277
Commodity Data Suramonies and Mit-	
ernt Entimates	265
Report on Fast Plax Test Pacility	301
HUD-Independent Apenales	
Subcammittee Energy Data System (EDS)	241
Spill Provention Control and Counter-	
measure System (SPCCS)	342
Technical Assistance Data System	
(TADS)	340
Interior Subcompittee	
Automobile Classification Data Base	
	345
Center for Energy Studies (CES)	40
Coal Deta Base	373
Coal Lease Data System	329
Compreherative Etiman Resources Data System (CHRDS)	365
	365
A Computer Code for Conceptual Cost Estimates of Steam Electric Power	
Fighting in Steam Electric Power Fights (Concept)	431
Contracts Information System (CIS)	
contract of the provide state of the state o	430
Controlled Fusion Atomic Data Con-	
ter	444
Cost and Pricing System	374
Coupled Energy System - Bosnomic	
Models	459
Criticality Data Center	445
Crade Oil and Natural Grs Production	398
Model	395
Crade Oli Buy/Sell Program	350
Crude Oil Brattlemanas (Equaliza- lites)	252
Crude Off Farst Paroheser	355
Crude Oil Pricing Medel (DCROPS)	400
Create On Friday Media (DCROPA)	397
Drilling Equipment Production Sur-	
707	259
Dynamic Input-Output Lincot Pro- gramming Model for Regional En-	
gramming Model for Regional He-	
ergy Impact Analysis (DIOLP)	391
Ecological Sciences Information Con- ter (RSIC)	446
Electrical Pleancial Forecasting Model	440
(RSE Model, EUFINANCE)	377
Bitetric Rate Demonstration Deta Sys-	
tom	346
Energy Abstracts for Policy Analysis	
(EAPA)	441
Entry Films Distribution	424
Energy Research, Development, and	417
Demonstration Investory	447

#### Sanata Committees

vitorazzetal Information Analysis Center (EIAC)	448
Environmental Resource Center (ERC)	447
ERDA Energy Research Abstracts (ERA)	-08
ERDA Headquarters Technical Li- brary	423
FEA Crude/Transportation Model	399
FEA Data Decorrary FEA Household Energy Expenditure	348
Model (HEEM)	383
FEA Hoosehold Energy Survey FEA Col Import System	394 354
Federal Energy Contensation Perfor-	
mance System Federal Energy Information Locator	343
System (FEILS)	366
Financial Information System Fridal Impact of Energy Price Changes	421
on State and Local Government Purchases of Goods and Services	225
Fessil Energy Update	3/3
Gentoper Surveys Transportances and	
Restarch Program Income Databasaan Impact Model	397 390
Information Center for Energy Safety	
(ICES) International Coal Supply Model	433
International Energy Evolution Sys-	
tom (IEES) International Cil Supply Model	384 388
Joint FEA/BOM Petroleum Reporting	
System Land and Mmetal Conservation Infor-	375
makon System	325
Land Base System Lease Management System	332 333
Laund Metal Fast Broader Reactor	300
Paul-Childring Information Center (LMFBR) Lequed Metal Fast Erceder Reactor	450
Plant Perscreter Information Sys- tern	425
Major Poel Russing Installation-Sarly Plenning Process Mentification	
(EPPE)	355
(MFBI)	356
Mandasary Cil Importa Project (MO(P)	353
Market Shares System	370
Mubile Dutiliste Price Monstoring System	30
Mineral Land Assessment	321
Miterals Information System (MINPO)	312
Mining Research	322
National Goal Medel (RMAC) National Energy Indocession Center	379
(NEIC)	367
Nataonal Geothermal Information Re- source (GRID)	451
National Natural Resources Library and Information Systema (NNRLIS)	
National Res for Taxant Barrent	315
Creating Barray Chases for the Re-	
	428
Netsonal Solar Heating and Cooling In- formation Center	422

(NAWDEX)	325
Natural Gas Curtadeports	357
Natural Gas Shortage Model	382
Neoclassical Regional Growth and En- ergy Price Model	397
Nevada Applied Ecology Information Conter	452
Nuclear Material Management Plan	
OECD Energy Derrand Model	426
Oil and Gas Reserves System	372
Oil and Gas Supply Model	378
Oil Shale/Bastonite Titlo Clearance	330
Outer Continental Shelf Post-Sale Sys- tem	231
Plant Medel	242
Present Conserve	344
Project Independence Evaluation Sys- Herr (PIES)	341
Project Operations System (POS)	341
Propage/Betage Allocation System	349
Resourt Information File	427
RECON (REmote CONsole)	440
Referry Cost Pasthrough	248
Regional Econometric Demand Model	348
and Auto Simulation Model (RD4)	385
Regional Industrial Multipher System (RIMS)	
Research Information Management	392
System (RIMS) Reserves Allocation and Mirre Cost	324
Model (RAMC) Severance Tax Model	360
Short Term Coal Demand Forecasting Model	376
Shori Term Petroleum Demand Fore- casting Model	383
Ske Distribution Model	364
Socio-Economie Environmental Dem-	004
ographic Information System (SEEDIS)	424
Solar Energy Update	437
Strategie Petroleaer Reserves Pro- graco-Wide System (SPR)	
Stripmang and Land Reclamation In-	363
formation System	405
Subpart L	269
Technical Books and Monographs Technical Information Center (TIC)	442
	439
Transfer Pricing System	351
Trends in Refinery Capacity and Udil- asson of Petroleum Refinences at the	
United States and Foreign Refinery Exporting Centers	360
Underground Ona Storage System	271
U.S. Uracimm Resources and Supply	3/1
Concentration Resources and Supply	432
Public Works Subcompittee	
Bookkeeping System	420
Bulk Electric Power System Reliabil-	
Center for Energy Studies (CES)	443
A Computer Code for Conceptual Cost	
Estimates of Steam Electric Power	
Plants (Concept)	431

National Water Data Eachange

Congressional	indea

Contracts Information System (CIS) -00 Controlled Frame Atomic Data Can-444 107 Corporate, Financial, and Economic leformetron File (RISCEID) 402 Coupled Energy System - Boonomie 470 Modela Criticality Data Conter Ecological Science Information Cen-Hr (ESIC) 44 Electric Power Fuel and Environmenttal A column 401 Electric Regulatory Activities 403 Energy Abstracts for Policy Analysis (EAPA) 441 Energy Pilms Distribution 424 Formy Research Development and Demonstration Inventory 40 Environmental Information Analysis Conter (EJAC) 118 Environmental Resource Center (#3C) 410 SRDA Locrey Research Aburacia (ERA) 438 ERDA Headquarters Torburge Libearv 423 Financial Information System 421 Fessel Energy Undate 426 EPC Budget Edge -----PPC Library 415 On Sarah Informers 403 Hydro and Electric Returning Data Roperts 405 Hydrotlectric Power Resources of the United States (NPR) 407 Information Centor for Rapery Safety CES 412 Library of Excessed Electric Power Contracts 334 Liquid Metal Fast Bronder Reactor Puel-Cladding Information Contor (LMEAR) 450 Liquid Metal Fast Broeder Reactor Plant Parameter Information System 425 National Geothermal Information Resource (OPID) 451 National Plan for Energy Research, Development, and Demonstration Creating Energy Chouses for the Fature 428 National Solar Heating and Cooling In-422 Natural Gas Company Operating In-413 Natural Gas Distribution Model 419 Natural Gas Industry Evaluation Sys-412 Natural Gas Regulations System (Prodacer Rate) 414 Natural Gas Regulation System (Pipe-Ine Rate) 416 Natural Gas Regulation System (Prodapper Certificate) Natural Gas Regulation System (Pipelite Certificate) Nevada Applied Ecology Information Center 455 Nuclear Material Management Plan n

### Congressional Index

Official PPC Files and Records	401
Planning and Billing System Plant Operation and Power Schedul-	339
148	335
Power Flow Program Power Serveys and Systems Evalue-	336
ten	409
Rescour Information File	427
Real-Time Operations, Dupatch and Scheduling (RODS)	337
RECON (REmote CONsole)	440
Socio-Economic Environmental Demographic Information System (SEED15)	434
Solar Energy Update	437
Special Reports Issued by the FPC and Faderal Power Commission Publicit- tions	411
Status of Peaching Hydroelectric Ap-	
plications Strapmining and Land Reglamation In-	+10
formation System Supervisors Control and Data Accura-	435
tion System (SCADA)	358
Technical Books and Monographs Technical Information Conter (TIC)	442
	439
U.S. Uranium Resources and Supply	432
State, Justice, Commerce, The	
Judiciary Subcompittee	
The Coastal Zone Management Pro- ares: An Uncertain Patters (Report)	
	187
Sanate Committee on Armed	
Services	
Services All Purchases and Condempation Pro-	
Sarvicas All Purthases and Condemnation Pro- ceedings Regarding the Naval Po- trolours and Oil Shale Reserves	259
Sarvicas All Purchases and Condemnation Pro- produms Reserving the Naval Po-	
Sarvicas All Putchases and Condemnation Pro- ceedings Regarding the Naval Po- trolours and Oli Shale Reserves Amusi Report to Congress on Naval Petrolours and Oli Shale Reserves	259 262
Sarvicas All Purchases and Condemnation Pro- ceedings Regarding the Naval Po- troloum and Oil Shale Reserves Annual Report to Congress on Naval	
Services All Puchases and Conferentator Pre- ceedings Regarding the Naval Pe- trolours and Oil Shuke Reserves Annual Report to Congress on Naval Petrolours and Oil Shuke Reserves Contracts Information System (CIS) The Deservergent of Debusy's Conser-	363 430
Sarvica All Puschess and Conferention Pro- ceedings: Regarding the Neor) Pro- teroleur and Oli Shale Reserves Annual Report to Congress un Naval Petroleurs and Oli Shale Reserves Casterists Information System (cl15) The Department of Definance Conser- vation of Petrolaum (Royor) Energy Pitra Distribution	363
Services All Purchases and Conferentator Pro- ceedings, Regarding the Neon Pro- teolour and Ol Shake Reserves Annual Report to Congress on Navial Protolenes and Ol Shake Reserves Contracts Information System (CIS) The Department of Deduces's Conser- vation of Performant (Report) Energy Pers Distribution ERDA, Hackarters Trehologia La-	962 430 012 424
Services All Puchases and Constants New Pro- toriors and Constants New Pro- toriors and Ol Shake Keervis Annual Report to Congress on Naval Percelarits and Ol Shake Keervis Contracts Indurnation System (CIS) The Department of Defaulty Conser- vation of Percelarits (System (CIS) The Department of Defaulty Conser- vation of Percelarits (System) Service Provide Conservation of Defaulty Percelarity Institutional La- Pissocial Information System	562 430 012
Service All Postgravity and Condensator Pro- teriors and Ol Shake Knerves Annual Report to Congress on Nuvul Postderm and Ol Shake Knerves Contrast Information Systems (CIS) The Department of Dedacary Conser- wides of Performant Report Report Headwares Treatming Language BERDA Headwares Treatming Language Paral Information System: Promotion of Reserves	262 430 012 434 423
Service All Parkama and Goldsmann Pro- Real Parkama and Goldsmann Pro- teiners and Oldsmann Pro- teiners and Oldsmann Pro- Contrasts Indermedies Systems (CD) The Dayservers at Deduce's Course Contrasts Indermedies Systems (CD) Barby Pro- Barby Register The Data Barby Management	262 430 012 424 423 421 261
forcing All Program and Conferencement Pro- All Program and Conference on Pro- teins and Ol Shake Reserves Annue Experts (Surgerts en Navil Problem of Ol Shake Reserves) Contentia Information (Bayler Unit Contentia Information (Bayler Weith (Statement Contentia)) Bayler (Statement Contentia) Bayler (Statement Contentia) Bayler (Statement Contentia) Bayler (Statement Contentia) Bayler (Statement Contentia) Castury Representation (Statement Contentia) (Stateme	562 430 012 424 423 421
for international Conference on Pro- network and Conference on Pro- ling and Provide the Novel Pro- tections and Different Sectors (CSI) The Department of Debasish Reserved Thereis and Cold Shake Reserved Thereis and Cold Shake Reserved Reserved There and Debasish Reserved There and Debasish Reserved Thereis and Debasish Reserved Thereis and Debasish Reserved Reserved Thereis Conference Desarres Reserved Thereis Conference Desarres Reserved Thereis Conference Desarres Reserved Reserved Debasish Reserved Reserved Reserve	262 430 012 424 423 421 261 255
forcing All Program and Conferencement Pro- All Program and Conference on Pro- teins and Ol Shake Reserves Annue Experts (Surgerts en Navil Problem of Ol Shake Reserves) Contentia Information (Bayler Unit Contentia Information (Bayler Weith (Statement Contentia)) Bayler (Statement Contentia) Bayler (Statement Contentia) Bayler (Statement Contentia) Bayler (Statement Contentia) Bayler (Statement Contentia) Castury Representation (Statement Contentia) (Stateme	262 430 012 424 423 421 261 255
Erclan and Contention Press Instances payments and the New Pr instances payments and the New Pr instances and the New Pr instances and the New Press Press and South Research Contention Educations (South New Press and South Research Research Research Research Research Research Present Instances and Press Present Instances and Press Present Instances and Press Press and South Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research R	262 430 424 424 423 421 261 258 260
Erofan menses seasoff in North Fr. Strategie and Strategie in North Fr. Strategie in North Fr. Neurosci and Strategie in North Fr. Neurosci and Strategie in North Fr. Strategie in North Fr. Neurosci and Strategie in Neurosci and Strategie in N	262 430 424 424 423 421 261 258 260
Endia media Salardia I wang ho mengan Salardia I wang ho Anani Para La Carara n Nahi Para La Carara n Nahi Para Salar Salar Salar Salar Salar Salar Para Salar Salar Para Salar Salar Para Salar Salar Para Salar Salar Para Salar Salar Para Salar Para Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Sa	552 430 012 424 421 261 258 260 257
Eardian and Construction Provide Andream	552 430 012 424 421 261 258 256 257 257 142
Endia media Subarration (Section 2016) Annual Para (Section 2016) Annual Para (Section 2016) Annual Para (Section 2016) Control 2016) Control 2016 Control 2016 Co	552 430 012 424 421 261 258 260 257
Enclan Industry Statistics of the New Privation of the New Privation of the New Privation of the New Privation of New Privat	552 430 012 424 421 261 258 256 257 257 142
Ender mehans specific have not mehans specific have not mehans specific have not have been been been been been been been been been been been been been been	562 430 424 421 261 255 256 257 142 257

Suberi Rale	uten of	U.S.S.R. autions for	Roorgy-	
nergy	Digest	SEPTEM	BER 197	7

	Related storal Re	Transa	atlens		ő
Ene	rgy Dig	est :	EPTE	M	1

Senate Coremittee on Budget Sudgeting of Federal Financial Incon- tives for Energy Development (Ta- trenop)	150
Sanata Committee on Commerce The Coustal Zenn Management Pro- gram: An Uncertain Pattere (Report)	147
Development of the Onter Continental Shelf Pessil Paul Resources (Ter-	
theosy) National Donan Polacy Study (Tes- strony)	215
Sanata Committee on Commerce,	
Sciance and Transportation Annual Report of the Scontary of Transportation on the Administra- per of the Natural Gas Pipeline	
Safety Act of 1948 Automobile Classification Data Base	277
Bulk Electric Power System Relabi- ity	345
Coal Data Pese	373
Comprehensive Human Restarces Data System (CHRDS)	265
Contracts Information System (CIS)	400
Corporate, Financial, and Economic Information Pile (RISCEID) Cost and Pricing System	402 374
Crude Oil and Natural Gas Production Model	378
Crude Oil Suy/Sell Program Crude Oil Betitlements (EquaFea-	350
tron) Crude Oil Pent Perchater Crude Oil Priane Model (DCROPS)	355
Dritting Basigment Production Sur-	397
vey	359
Dynamic Input-Output Linear Pro- gramming Model for Regional En- ergy Impact Analysis (DIDLP) Ecological Sciences Information Con-	391
ter (ESIC) Electrical Financial Porecasting Model	440
(BSB Model EUFINANCE) Electric Power Foel and Enviroperen-	377
tal Analysis Electric Rate Demonstration Data Sys-	405
tem	3.45
Electric Regulatory Activities	400
Storgy Films Distribution Environmental Information Analysis Center (EIAC)	424
Bavironmental Resource Center (ERC)	49
IRDA Headquarters Tachnical Li- brary	-623
PEA Crude/Transportation Model	399 368
FEA Data Dictionary PEA Household Energy Expenditum Model (HEEM)	368
FEA Household Essergy Survey	394
FEA OI Iggort System	354
Federal Baargy Conservation Perfor- mance System	343
Federal Energy Information Locator System (FEILS)	346

#### Sazata Consillans

Pintocul Information System	421
Fiscal Impact of Energy Price Changes	
on State and Local Gevernment Purchases of Goods and Services	395
FPC Budget Files	400
FPC Linney	418
Gas Supply Indeators	403
Hydro and Electric Recorning Data	
Reports	406
Hydroelectric Power Resources of the United States (HPR)	407
Income Distribution Impact Model	290
Industrial Energy Dificionary Pro-	
gram.	296
International Cost Supply Model	387
International Energy Evaluation Sys-	384
ten (IEES) International Dit Supply Model	265
Jeist FEA/8OM Petroleum Reporting	
System	375
Major Fuel Furning Installation-Sarly	
Panning Process Ideorafication	358
(EPPE) Major Fact Formon Installations	354
(MP8D	355
Mandatory Oil Imports Project	
(MOIP)	353
Market Shares System	30*0
Middle Distillate Price Menitoring	347
System Natural Cast Model (RMAC)	34/
National Baergy Information Canter	
(NEIC)	367
National Geothermal Information Re-	
source (GRID)	451
Natural Gas Company Operating In- formation File	413
Natural Gas Curtailments	357
Natural Gas Distribution Model	419
Natural Gas Industry Disabastion Sys-	
lt mi	412
Natural Gas Regulations System (Pro- ducer Rate)	414
Nataral Gas Regulation System: (Pipe-	414
Ene Rate)	416
Natural Oas Regulation System (Pro-	
dacor Cordforte)	415
Natural Cas Regulation System (Pipo- line Carillicate)	417
Natural Gas Shortage Model	382
Neodamical Regional Ospath and En-	
ergy Price Model	339
ORCD Energy Demand Model	386
Official PFC Piles and Records	491
Oil and Gas Reserves System	372
Oll and Gas Supply Model	372
Plane Model	352
Power Surveys and Systems Evalua- tico	409
Project Conserve	344
Project Independence Evaluation Sup-	
tern (FIES)	381
Project Operations System (POS)	361
Propage/Batane Allocation System	349
Refinery Cost Pasathrough	348
Regional Econometric Demand Model	
and Auto Simulation Model (RD4)	385
Resident Industrial Multiplier System	
(RIMS)	372

#### Senate Committees

Zone Management	250
Reserves Allocation and Mase Cost Model (RAMC)	360
Revers of Average Fael Economy Standards under Tute V of Motor Vehicle Information and Cost Sav- mas Att	778
Standard Tax Model	325
Short Terr Coal Demand Forecasture	
Model	376
Short Term Petroleum Demand Fore-	
cantung Model	283
Site Distribution Medel	364
Special Reports Issued by the FPC and Federal Power Commission Publica-	
tions	411
Spill Prevention Control and Counter- measure System (SPCCS)	342
Status of Pending Hydroelectric Ap- pheatures	410
Strategic Potroleum Reserves Pro- gram-Wide System (SPR)	363
Subpart L	369
Technical Assistance Data System (TADS)	240
Transfer Pricing System	351
Trends in Relinery Capacity and Unit- zanen of Petroleum Relinenes in the United States and Foreign Relincry	
Exporting Conters	350
Underground Gas Storage System	371
nate Committee on Energy and Natural Resources	

#### Actual Processod Concerning Conflict of Interest 258 Actolitics of Each Geothermal Demonstration Project 307 Autorities of Solar Energy Coordina-tion and Miniagement Project 302 Attivities of the Deathermal Coordisation and Management Project 306 All Parchases and Condemnation Procoolings Regarding the Naval Petopicses and Oil Shale Reserves 549 Annual Report on the Columbia Rover Power System 275 Annual Report to Congress on Naval Petroleum and Dil Shale Reserves 242 Astorrobile Classification Data Base 245 Bulk Electric Power System Reliabil-182 404 Center for Reergy Studies (C25) 40 Coal Data Sate 373 Coal Lesse Data System 372 Commodity Data Summarias and Maseral Espirates -Compensatory Resulty Agreements 272 Comprehenance Human Resources Data System (CHRDS) 365 A Computer Code for Conceptual Cost Estimates of Steam Electric Power Plants (Concept) 411 Consolidated Piranetal Statement of the Federal Columbia River Power System 27.4

40

5.

0er	- 44-
Corporate, Financial, and Economic Information File (RISCEID) Cost and Prining System	400 374
Coupled Energy System - Economic Models	
Create Data Center Crude Dat and Natural Gas Production	445
Model Crude Oji Bay/Sell Program	398 350
Crude Oil Epititements (Repaires- non)	352
Crude Oil First Purchaser Crude Oil First Medel (DCROPS)	355
Domestic Energy Resource and Re-	397
serve EstimatesUsca, Limitations, and Neoded Data (Report)	223
Dollag Equipment Production Sur-	359
Dynamic Japas-Dutpet Linear Pro- gramming Model for Regional En- ergy Impact Analysis (DIDLP)	391
Boological Selences Information Cen- ter (ESIC)	445
The Recomme Impact of Energy Ac- teens	255
Effect and Operation of Intenstate Compacts Relating to Natural Oas	297
Electrical Parancial Parecasting Model (858 Model EUFINANCE)	377
Electric Power Past and Revienzeen- tal Analyses	405
Electric Rate Demonstration Date Sys- tem	346
Electric Regulatory Activities Employee Disclosures under the En-	408
ergy Policy and Conservation Act Energy Abstracts for Policy Analysis (EAPA)	265 441
Energy Pilms Distribution	424
Energy Research, Development, and Demonstration Inventory	40
Energy Resource Data Systems	328
Environmental Information Analysis Center (BIAC)	48
ERDA Energy Research Abstracts	
ERDA Headquerters Technical Li-	438
Exemption of a Refined Percoleum	422
Product from the Mandatory Pe- truleum Allocation and Pree Regu- lations	291
Exploration of National Petroleum Re- strye in Alaska	270
PEA Crade/Transportation Model	399
PEA Data Dicteosry	248
FEA Household Energy Especificate Model (HEEM)	393
FEA Household Energy Survey	394
FEA Oil Import System Federal Energy Conservation Perfor-	354
mance System	343
Federal Energy Information Locator System (PEILS)	366
Pederal Heltam Program The Pederal Wied Energy Program	320
(Report) Planneal Disclosures by Employees	206

Controlled Busine Assets Data Con-

....

ter

Performing Protetions under Energy Policy and Conservation Act	287
Financial Information System	421
Financial Report on the Ocothermal	309
Resources Development Pand Fiscal Impact of Energy Price Changes	309
on State and Local Government	
Purchases of Goods and Services	395
Fessil Roergy Program Report Fossil Energy Update	311
FPC Budget Files	400
FPC Liteary	418
Gas Supply Indicators	403
Geologio Surveys, Investigations, and Research Program	327
Ornats of Rights-of-Way for Pipelines	347
through Pederel Leads	273
Hydro and Electric Resurring Data Reports	405
Nydroelectric Power Resources of the	406
United States (HPR)	407
Exploration and Procedures for the Exploration and Development of Outer	
Contract Al Shelf Revauces (Testimony)	232
Income Distribution Impact Model	390
Industrial Energy Efficiency Pro-	
gram Information Center for Enorgy Sefery	296
(ICES)	433
International Coal Supply Model	347
International Energy Evaluation Sys- tem (IEES)	584
International Oil Supply Model	388
Joint FEA/BOM Petroleum Reporting	
System Land and Mineral Conservation Infor-	375
mation System	326
Land Base System	332
Lease Management System	333
Library of Executed Effectric Power Contracts	334
Liquid Metal Past Breeder Reamer	
Fuel-Cladding Information Center (LMP8R)	450
Liquid Metal Past Brender Research	400
Plant Parameter Information Sys- tem	
Major Poel Surning Installation-Starly	455
Planning Process Identification	
(EPPE) Major Fuel Barning Installations	358
Major Fuel Burning Installations (MP81)	355
Mandatory Oil Imports Project	
(MOIP) Market Shares System	353
Middle Distillete Price Monitories	370
System	347
Mineral Land Assessment	321
Minerals Information System (MINFO)	922
Mining and Minerals Policy	267
Mining Research	323
National Coal Model (RMAC)	379
National Energy Information Center (NEIC)	347
National Geothermal Information Re-	***
source (ORID)	451
National Natural Resources Library and Information Systems	
(NNRLIS)	319
National Plan for Energy Research,	

### Congressional Index

Development and Demonstration	30
Planning and Analysis National Program for Solar Heating	
and Cooling National Solar Heirong and Cooling In- formation Center	10
formotion Center National Water Data Exchange	42.
(NAWDEX)	32
Nataral Gas Company Operating In- formation File	413
Natural Gas Curtariatents	35;
Natural Gas Industry Evultation Sys- tems	410
Natoral Gas Regulatorea System (Pro- ducer Rate)	41.
Natural Gus Regulation System (Pipe- line Rate)	414
Neteral Gas Regulation System (Pro- ducer Centificane)	
Netural Gas Regulation Systems (Pipe-	413
Ine Centificate)	413
Netaral Gas Shortage Model Neotlesseal Regional Grawth and En-	383
ergy Price Model	585
Nevida Applied Reology Information Center	455
Nuclear Material Management Plan	420
OECD Energy Domand Model Official FPC Files and Records	384
Official PPC Pries and Records Of and Gat Reserves System	401
Od and Gas Supply Model	378
Od Shale/Beatonne Title Clearance	390
Operation of State Energy Conserva- tion Plans	295
Outer Continental Shelf Post-Sale Sys-	331
Petroleum Markes Shares	284
Finning and Billing System	209
Plant Operation and Power Schedal- ing	335
Plame Model	362
Power Flow Program	326
Power Surveys and Systems Evelua- tion	409
Progress of and Pature Plans for Ex- ploration of National Petroleum Re-	
serve in Alaska	271
Progress of Energy Conservation Pro- gram for Conserner Products Other	
Then Automobiles	274
Project Conserve Project Independence Rvaluation Sys-	344
tom (PIES)	351
Project Operations System (POS)	361
Propanal Brasse Allocation System Proposed Establishments of Joint Fed-	349
eral-ledutry Neneuclear Corpora- tion	315
Protection of Oil Reserves	251
Reactor Information File	427
Real-Time Operations, Dispatch and Scheduling (RODS)	337
RECON (REmote CONsole)	440
Reducing Nuclear Powerplant Land- times: Many Obstaclos Remain (Re-	
port/	069
Refinery Cost Pasathrough	348
Refunds on Owner Continental Shelf Leases	266
Reponal Bostometer: Domand Model and Auto Simulation Model	
(RD4)	385

# Energy Digest SEPTEMBER 1977

35	Reposal Industrial Multiplier System (RIMS)	392
10	Reports of Costs of Certain Structures on Nongovernment Wetcos	298
2	Report to the Congress on Matters Contasted in the Holiser Act	266
5	Research information Management System (RIMS)	324
3	Reserves Allocation and Mine Cost Model (RAMC)	380
2	Severance Tax Model	396
2	Short Term Coal Deexed Forecasting Model	376
4	Short Term Petroleum Domand Fore- emang Model	363
4	Site Orstnibution Model	364
s	Sope-Beenzene Eoveronmentel Demographie Information System	
,	(SEEOIS)	434
2	Solar Borrgy Update	437
,	Special Reports Issued by the FPC and Federal Power Communication Publica-	411
	Status of Pending Hydroelectric Ap-	
2	pleations	410
6	Strategic Petroleum Reserve Plan	299
6	Strategic Perroleum Reserves Pro-	
1	gram-Wide System (SPR)	263
2	Stripmining and Land Redenation In-	435
	formation System Subpart L	369
<u> </u>	Supervisory Control and Data Acquite-	364
5	ton System (SCADA)	338
	Technical Books and Monographs	442
1	Technical Information Center (TIC)	
4		439
2	Transfor Pricing System	351
	Trends in Refinery Capacity and Usli-	
ź	astion of Petroleum Refineries in the	
5	United States and Foreign Refinery Exporting Centers	340
	Underground Gas Sterage System	371
2	U.S. Uranjum Resources and Supply	
		432
	Ways to Strengthen Congressional	
	Control of Energy Construction	
	Projects Other Than Neeloar (Re-	197
£.	parto -	192
5	Energy Research and Development	
	Subcommittee	
	Management and Funding Aspects of Three Nonsuclear Intergy Re-	
	search, Development, and Demon-	
	stration Subprograms (Report)	203
5	Senote Committee on Environment	
	and Public Works	
	Annual Report on the Columbia River Power System	275
		420
	Bookkeeping System Consolidated Fleanziti Statement of	420
	the Pederal Columbia River Power System	274
•	Energy Data System (ED3)	341
	Finneling and Billing System	339
	Resource Recovery and Source Reduc-	-47
	tion	279
	Technical Assistance Data System	
	(TAD5)	340

Senate C			
----------	--	--	--

Senote Committee on Finance Analysis of the Energy, Economic, and	
(Shiff andy) Commodity Data Summaries and Min-	129
eral Estimates	266
Relations	
Review of Voluntary Astronauts and	
Plan of Action To Implement the In- ternational Energy Program	276
U.S. Nuclear Non-Proliferation Polacy (Report)	248
(induction)	
Senote Committee on Governmentol Affoirs	
Automobile Classification Data Base	
Cool Data Base	345 373
Competitionsve Human Resources	3/3
Data System (CHRDS)	365
Cost and Pricing System Crude Gil and Natural Gas Production	374
Medal	398
Crude Oil Day/Sell Program	350
Crode Oli Estitlements (Equaliza- tion)	552
Crude Oil First Purchaser	355
Crude Oil Pricing Model (DCROPS)	
Dritting Equipment Production Sur-	397
vey	35P
Dynamic Input-Output Linear Pro- gramming Model for Regional In-	
argy impact Analysis (DIOLP)	391
Electrical Pinancial Percenting Model (BSB Model EUFINANCE)	377
Electric Rate Demonstration Data Sys-	345
Energy Policy Decisionmeking, Oc-	
ganization, and National Energy Grais (Report)	193
Energy Reorganization Legislation	124
(Terranom) FEA Crude/Terranomation Model	399
FEA Data Dictionary	368
FBA Homehold Energy Expenditure Model (HBEM)	393
FEA Household Energy Survey	394
PEA OII Impart System	354
Federal Energy Conservation Perfor- manue System	245
Foderal Energy Information Locator	
System (FEILS) Federal Energy Management Program	366
Annual Report	293
Fiscal Impact of Energy Price Changes on State and Local Government	
Purchases of Goode and Services	395
Income Distribution Impact Model	390
International Coal Supply Model International Borryy Systemtion Sys-	287
tem (IBES)	384
International Oli Supply Model	368
Jeint PEA /BOM Petroleum Reporting System	375
Major Puel Burning Installation-Early	
Planning Process Identification (EPPB)	358

Major Fuel Barrang Installations (MFBI)	356
Mandasary Oa Imports Project (MOIP)	353
Market Shares System	370
Middle Distilate Proc Montoring	
System	347
Munoral Land Associations	321
Minania Information System (MINPO)	322
Mining Research	323
National Coal Model (RMAC)	329
National Energy Information Center (NEIC)	367
Natural Gas Consultments	357
Natural Cas Shortage Model	343
Neoclassical Resident Growth and En-	
erzy Price Model	389
OECD Energy Demand Model	286
Oil and Gas Reserves System	372
Dil and Gas Supply Model	378
Plans Model	342
Project Conterve	344
Project Independence Evaluation Sys-	
tem (PIBS)	381
Project Operations System (POS)	361
Propane/Intene Allocation System	249
Refinery Cost Passivesgh	349
Reposal Econometric Derrand Model and Auto Seguilation Model (RD4)	385
Regional Industrial Malapher System	
(RIMS) Report to the Provdent by the Nation	392
Report to the Prosident by the Nuclear Regulatory Committee	318
Reiearch Information Management	
System (RIMS)	224
Reserves Allocation and Muse Cost Model (RAMC)	380
Sportane Tax Model	396
Short Term Coal Dorsand Porecastera	
Model	576
Short Term Petroleum Domand Fore-	
casting Model	385
Stat Distribution Model	364
Stategic Petroleum Reserves Pro- gram-Wide Sasters (SPR)	363
Subpart L.	369
Transfer Precing System	351
Treads in Referry Capacity and Utili-	
patton of Petroloum Rolinenes in the	
United States and Foreign Refinery Experting Centers	340
Expering Centers Underground Gas Storage System	380
criwdrown cas storifs sizes:	

#### Secole Compilition on Government .....

A Bill to Ratend the Paderal Energy Administration Act of 1974 (Ter- smeril	179
Development of Interagency Relation- thips in the Regulation of Nuclear	179
Materials and Facilities (Report) The Faderal Energy Admanstration's	055
Compliance and Enforcement Ac-	119
Pederal Roegy Administration's Ed- forts to Audit Domestic Crude Cul	
Producers (Report)	

port/ Problems in the Federal Energy Ad-	120
maistration's Compliance and En- forcement Effort (Report)	118
Problems in the Federal Energy Of- fice's tarplementation of Emergency Potroleum Allocation Programs of	108
Regional and State Levels (Report) Problems of Independent Refirers and	
Gatoline Retailors (Report) Role of the International Atorne En-	121
ergy Agency in Soleguarding Na- clear Material (Tersiwony)	242
This Country's Most Expensive Light Water Refector Safety Test Pecility (Report)	059
U.S. Nuclear Non-Frohleration Policy (Report)	248
Reports, Accounting and Management	
Subcaranities The Federal Income Taxes of Class A and B Electric Utilities (Report)	185
Sciented Aspects of Nuclear Power-	
plant Reliability and Economics (Re- port)	050
Survey of Pederal and Electric Utility Processments of Power Equipment	
(Report)	162
note Committee on Interior and Insular Affeirs	
Actions Needed to Improve Federal	
Efforts in Collecting, Analyzing, and Reporting Energy Data (Report)	159
A Bill to Establish a National Energy Information System (Teanwary)	158
Capability of the Naval Petroleum and Oil Shole Raterves to Meet Emm- gency Oil Needs (Testimony)	073
Development of the Duser Continental Shell Forski Feel Resources (Ter-	
strengt The Energy Information Ace, S. 1864	215
(Tearrong) Federal Efforts to Improve the Fuch	176
Economy of New Automobiles (Re- part)	020
Improvements Needed in the Federal Enhanced Oil and Gas Rooswary Research, Development, and	
Research, Development, and Demonstration Program (Report) Improvements Still Needed in Federal	155
Bottgy Data Collection, Analysia, and Reporting (Report)	182
Indian Natural Responses-Part II- Cosl, Ož, and Gas-Eetter Manage-	
ment Can Improve Development and Increase Income and Employ- ment (Report)	225
Issue Needing Attention in Develop-	100
ing the Strategic Petroleum Reserve (Report)	090
National Plan for Energy Research, Development, and Demonstration: Creating Energy Chosen for the Fo-	
tace	428
Opportunities to Improve Planning for Solar Bacryy Research and Deve- lopment (Report)	202
Outer Continental Shelf Sale #35: Problems Selecting and Rvaluating	
Land to Lease (Report) Power Production at Federal Darra	231
Could Be increased by Modernizing	

Could Be Increased by Modernizing Turbines and Ocnerators (Report) 

Provisions of Newsjo and Hopi Coll Leases (Report)	297
Survey of Publications on Exploration, Development and Delivery of Alas- kan Od Market (Report)	189
An Unclassified Digest of a Classified Report Entitled "Safety and Tran- sportneon Safeguards at Rocky Flats Nuclear Wespeet Plant" (Report)	067
Minerals, Materials and Fuels	
Subcarmittee	
Department of the Interior's Proto- dures for Approving Coll Miking Plans (Report)	228
Senate Committee on Public Works	
Sanaha Constitute on Public Works Considerations for Commercializing the Liquid Metal Past Breeder Reac- tor (Report)	066
Status and Obstacles to Commerciali-	
zation of Coal Liquefaction and Gaustication (Report)	0B5
Sanote Committee on the Judiciary	
Review of Voluntary Agreement and	
Plan of Action To Implement the In- toreational Energy Program	276
Administrative Practice and Procedure	
Subcommittee The Foderel Energy Administration's	
Correliance and Enforcement Pro-	
centres (Testmoni)	125
Problems in Regulating Natural Gas	14.0
Prices by the Pederal Entray Ad-	
enceptration (Report)	139

## Joint Committees

	Joint Committee on Atomic Energy	
	Addividues of Solar Energy Coordina-	
	tion and Management Project	302
	Budget History Tables	317
	Continents on Energy Resourch and Development Administration's Proposed Arrangement for the Clinik River Breeder Resector Demonstration Plant Project (Re-	
	part)	044
	Comments on Propoted Legislation to Change Baals for Government Change for Uracium Enrichment Services (Reserv)	131
	Comments on Sciented Aspects of the	
	Administration's Propesal for Gov- erement Assistance to Private Unnum Encichment Groups (Re-	
	port)	145
·	The Economic Instact of Recent Ac-	
	tions	255
	Beergy Research and Development	
	Administration's Contingency Plan for More Enrichment Capacity at Portsmouth, OH (Report)	052
		052
1	BRDA Report of Review of Design, Construction, and Planning of Plutonium Processing Paulities	299
	The Evaluation of the Administration's Proposal for Government Assist- ance to Private Unsucen Barych.	
	mont Oroups (Teniman)	052

r		du Post, Rep. Pierre S.	
ø	046	Energy Efficiency of Nuclear and Con- versional Fuels Used to Produce Electricity (Report)	63
1		Need for the Pederal Power Commis- sion to Evaluate the Effectiveness of	
-	091	the Notanii Gas Curtailment Policy (Report)	15
		Findlay, Rep. Pool Legility of Administration Actions in Printing and Storing Gas Composes (Leater)	10
	198	Frozer, Rep. Donold M. Donestic Cade Oil Pricing Policy and Related Production (Report)	115
	995	Freehilth, Rep. Horold V. Legalky of Praturg Cassilae Ration- ing Caupers by Federal Barryy Ad- ministration (Letter)	100
	996	Genzolez, Rep. Henry B. Receipt and Coordination of Natural Gas Reserve Data (Report)	072
4	135	Gudo, Rep. Gilbert Potential for Using Electric Vehicles on Pederal Installations (Report)	022
		Hechier, Rap. Ken Opportuilite for Insprovements in Re- claining Strip-Mined Lands under Coal Parchase Costnots (Report)	092
,	117	Heilings, Son. Essent F. Department of the Interior Study of Stor-In Ol and Gas Well Comple- tions and Losses-GAO Observ- nors (Report)	224
	167	Holtzmon, Rop. Elizabeth Allegel Waste of Money in Printing Costs on Oas Raboning Cottpons (Lenv)	110
	011	Jockson, Sen. Henry M. Relable Cectrant Sales Data Needod for Projecting Ameents of Natural Clas That Cecid its Decegalated (Re- port)	172
	224	Llayd, Rep. Moellyn Hans for Gessmution of a Mag- netobydrodynamics Test Facility in Montana (Report)	C64
	124	Mognution, See, Werten G. Department of the Internet Study of Stati-In Oil and Cas Well Comple- tions and Lesser-GAO Observa- tons / Report	224
	102	McCormotk, Rep. Mike The Effects of Oil Price Increases on Small Basicess Contracts (Report)	123

Evaluation of the Administration's Proposal for Government Assisance to Private Uraniam Enrichment Groups (Report)

Purther Comments on Atomic Energy Commission's Proposed Arrangement for the Liquid Metal Phat Breeder Reactor Demonstration Proper, (Report) Preme Structure of the Unmary En-

Proze Structure of the Uniteria Ennehment Industry (Texterony) Management of the Autore Energy

Controlled Thermonuclear Research Program (Report)

Proposed Agreements for Cooperation with Other Nations on Atomic Energy

Proposed Changes to the Atomic Enorgy Commission's Arrangement for Carrying Out the Liquid Metal Past Breeder Reactor Demonstration Propose (Report)

The Proposed Contract for the Clinch River Breeder Reactor Project (To-Aways)

Proposed Distribution of Special Nuclear Materials

Preposed Revisions to the Criteria and Contracts for Uraniam Enrichment Services (Report)

Protecting Special Nuclear Material in Transit Improvements Made and Existing Problems (Report)

Report by the U.S. Energy Research and Dovelopment Administration, Status of Construction Properts and Other Data

Report on Attivity and Program Index of the Energy Research and Development Administration: Status of Construction Projects and other Data

Report on ERDA's Numerlas Ac-

Report on Past Flux Test Pacifity Report on Reprogramming Action for the Nuclear Materials Frontan

Report on the Status of Major Construction Projects Experiencing Sagrificent Variances

Report to the President by the Nuclear Regulatory Commission

Summary of Abnormal Occurrences Reported to the Nuclear Regulatory Commission

U.S. Nitelear Non-Proliferation Polscy (Report)

### Joint Committee on Defense

Production

Connedity Gata Summaries and Mun-	
eral Estimates	
Mining and Minerals Policy	

#### Joint Economic Committee

Can the U.S. Breeder Resctor Development Program Be Accelerated by Using Fereign Technology? (Report)

The Economic Impact of Energy Actions

Federal and State Solar Energy Research, Development, and Demonstration Activities (Report)

Energy Digest SEPTEMBER 1977

Laurid Metal Post Booder Bearty

Priorities and Examples in Generation

Progressent of Perelan and Openenti

Petroleum by Department of De

Members

How Solar Energy Was Treated in th ABC Chainman's Report, "The Na

tion's Fourty Funner" (Record

Bayaness and Casts Allocated a

Federal Power System (Report)

Gelf Oil Commission's "Decide Dir

Information on the Proposed Alask

The Parchase of Short-Supply, Energy

Curtainset of Electric Passer Service

Information on Selected Aspects of the

The Energy Impact of Moving Donard-

Power Operations of Tennessee Val lay Authority (Report)

by the Tennessee Valley Authority

Related Iteras through the Eaport

Impact Back of the United State

Oil Pupilus (Report)

nine" on Crude Oll Perdant Cost

Power Operations at Maltiple-Par

pose Projects in the Southwester

(Datissas)

Subcommittee

ferse (Report)

Absurant, San. James

(32) Albert, Rep. Corl

Aspin, Rep. Les

(Report)

Bentsen, Sen, Lloyd M.

(Record)

Carey, Rep. Hugh L.

Brack, Sen. Bill

124

-

195

2014

0.50

500

692

313

301 by the 1 (Report)

214

100

210

316

247

Penerare, Past, Present, and Fater

Funds Credited to the Account of the Virgin Islands for Refunds from Import License Pees (Report)

245 255 200

#### Dolo, Son. Robort Review of Completers Concerning the

Mandatory Petroleum Allocation Program and the Regulation of Petroleum Pricing (Report)

	Metcolfe, Rep. Rolph H. The Navy's Percuse of Discharging Fort at Sec. (Report)	020	Roth, Son. William V. Od and Gas Lessing on Pederal Lands (Report)
	Miller, Rep. George Requests to Regulatory Agencets by Oil Companies for Destations from Standard Procedures (Report)	148	Schweiker, San. Richard S. Openning Cost and Environmental Radiation Monthering at the Step- program Atomic Power Station (Re- port)
	Monkley, Rop. John J. Managentmi Inspervenensis Needed in the Federal Power Commission's Processing of Rective-Rote-Instease Cases (Report)	123	Shorp, Rep. Phillp R. Department of Commercy's "SevEn- orgy Claimsts" (Report) Streamen, Sen. Adial E. Department of the Internor Study of Shui-In OA and Gas Well Comple- tions and Leaster-OAO Observ- tions and Leaster-OAO Observ-
	Mats, Rep. John E. The Energy Research and Dovelop-		tuaes (Report)
	ment Administration's Proposed Centract with Project Management Geoperities, Commonweakh Edu- sect, and the Tennessee Valley Au- thenry (Report) Effects of a Change in Store Standard	056	Tunney, Sen, John V. Department of the Internet Study of Studies Oll and Gas Well Comple- tions and Leases-GAD Observa- tions (Report)
	for Scrall Business Petroleum Refin- tra (Report) Followup Review of the Navel Pe-	149	Vonik, Rep. Chories A. Agreements between the Socretary of the Interior and Officials of the State
	intern Reserves (Report) Feather Action Needed on Recom-	220	of Utsh Pertaining to Oil Shele Leasts (Letter)
	reader Action Records on Recom- mandations for Improving the Ad- monstration of Pederal Cost- Learng Program (Report)	217	Companion of Energy Use in Pire Federal Office Buildings (Rejert) Leating of Minerals on Public Lands
	Information on Certain Orland Gas In- distry Generalist Responsibilities (Report)	105	(Argen) Wirth, Rep. Timethy E.
	Need for Improving the Regulation of the Natural Gas Industry and Man- agement of Internal Operations (Re- port)	103	An Unclossified Digest of a Classified Report Entitled "Safety and Tran- sportation Safeguards at Rocky Plats Nuclear Weapons Plant" (Report)
	Relable Contract Salas Data Needed for Propering Arzonats of Natural Gas That Could Bo Deregulatod (Re- part)	172	Wolff, Rep. Lester L. Satistual Data on Petroleum and Pe- troleum Products (Report)
	Requested Usiany Rate Increase by the Potense Electric Power Company (Report)	192	
	Requests to Regulatory Agencies by Oi Companies for Deviations from Standard Procedures (Report)	148	
	Staffing of Federal Energy Administra- tion's Office of Communications	140	
	and Public Affairs (Report)	164	
	Moss, Sen. Frank E. Department of the Intensor Study of Shot-In Cil and Clas Well Comple- tions and Leaner-GAO Obterva- toos (Report)	224	
1	Proximire, Sen. William Information on the Proposed Alaska		
	Oil Pipeline (Report)	674	
5	Policy Colligion Transmission		

Peteral Coal-Leasing Program of the	
Department of the Interfee (Report)	221

## Philip R. citations" (Report) 024 Sen. Adial E. Sen. Adial E. Sent of the laternor Study of In Od and Gas Well Comple-and Leases-OAO Observa-Reports 224 e, John V. m, John V. test of the Interner Study of In Oil and Gas Well Comple-and Leases-GAD Observa-Report 224 Chories A. int between the Secretary of terior and Officials of the State h Perturning to Oil Shele (Lever) 209 non of Entryy Use in Pive of Office Staidings (Reject) 017 of Minerals on Public Landa 211 Timethy E. sasified Digest of a Classified Entitled "Safety and Tran-ion Safeguards at Rocky Plats ir Weapons Plant" (Report) 057 Lester L. Data on Patroleum and Pe-Products (Report) 072

210

042