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10 UNITED STATES DISTRICT COURT
11 NORTHERN DISTRICT OF CALIFORNIA
12 SAN FRANCISCO DIVISION
13

14 UNITED STATES OF AMERICA,)	CASE NO. CR-11-0573-JSW
)	
15 Plaintiff,)	BILL OF PARTICULARS AS TO TRADE SECRET
)	1, AS ALLEGED IN COUNTS THREE AND FIVE
16 v.)	OF THE SECOND SUPERSEDING INDICTMENT
)	
17 WALTER LIEW, CHRISTINA LIEW, USA)	
18 PERFORMANCE TECHNOLOGY, INC.,)	
AND ROBERT MAEGERLE,)	
)	
19 Defendants.)	
)	

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21 The United States hereby provides the following particulars regarding Trade Secret 1, as alleged
22 in Counts Three and Five of the Second Superseding Indictment.

- 23 1. The United States will argue that Defendants reasonably believed the entire, integrated
- 24 DuPont chloride-route process to manufacture TiO2 was a DuPont trade secret.
- 25 2. The United States also will argue that Defendants reasonably believed that certain
- 26 components and subparts of the DuPont chloride-route process to manufacture TiO2 were
- 27 DuPont trade secrets, specifically the following:
- 28 a. Chlorinator Fluidization Air Requirements;

- b. Chlorinator Design;
- c. Chlorination Reaction Front End Layout;
- d. Oxidation Reactor Design;
- e. Fume Disposal Systems;
- f. Oxidation Flue Pond Design and Piping;
- g. SR Condenser Design;
- h. Non-Reversing Cyclone Design;
- i. SR Condensate Tank;
- j. Contact Condensers;
- k. Gas Flow to O2 Rx Insert;
- l. Flash Tank Design;
- m. Slurry Tank;
- n. Fume Scrubbers;
- o. Equipment Arrangement;
- p. Oxidation Screw Conveyors;
- q. Oxidation Bag Filters;
- r. Chlorine Handling Facilities;
- s. Purge Rate;
- t. Slurry Pumping Data;
- u. AlCl3 Generator;
- v. Chlorinator Velocity; and
- w. Nitrogen Flow to Chlorinator.

3. The United States also will argue that Defendants reasonably believed that certain components and subparts of the DuPont chloride-route process to manufacture TiO₂ were DuPont trade secrets and integrated these trade secrets into their design of the following components:

- a. Spray Machine; Chlorination Reaction; Spiral Nozzle with Assembly; Inconel (identified by defendants in September 2009 as their component SP-3100);

- b. Spray Condenser Rotary Valve; Chlorination Reaction; 12"; Inconel; Variable Speed (identified by defendants in September 2009 as their component RV -3100);
- c. Oxidation Reactor; Oxidation-Oxidation Preheat and Reaction; Reaction Zone Dia: 200 mm; Inconel, ceramic lined with castables (identified by defendants in September 2009 as their component R -5500);
- d. Oxidation Bagfilter Screw Conveyor; Oxidation – Separation and Slurrying; 2 directional center O/L 7 t/h ea capacity; Inconel (identified by defendants in September 2009 as their component CV-5780);
- e. Degassing Screw Conveyor; Oxidation – Separation and Slurrying; 15.1 t/hr; Inconel (identified by defendants in September 2009 as their component CV-5790);
- f. Oxidation Discharge Rotary Valve; Oxidation – Separation and Slurrying; 10" IPS Inconel (identified by defendants in September 2009 as their component R-5790);
- g. Slurry Tank Agitator; Oxidation – Separation and Slurrying; ID: 4m, Ht: 5m, Cone Ht: 3.5m, Cone angle 60, (77.5 M3); Stainless Steel/titanium (identified by defendants in September 2009 as their component A-5800); and
- h. MG -7420, -7520, & -7620; Micron Grinder; Post-Treatment – Grinding; 8 in IPS, 4200kg/hr; Stainless Steel 304 (identified by defendants in September 2009 as their components MG-7420, -7520, & -7620).

4. The Second Superseding Indictment alleges that Trade Secret 1 includes Trade Secret 2. The United States will argue that Defendants reasonably believed that Trade Secret 2, which showed ways and means of producing TiO₂, was a compilation and combination of DuPont trade secrets regarding that manufacturing process.

5. The Second Superseding Indictment alleges that Trade Secret 1 includes Trade Secret 3. The United States will argue that Defendants reasonably believed that Trade Secret 3 was a DuPont trade secret.

6. The Second Superseding Indictment alleges that Trade Secret 1 includes Trade Secret 4. The United States will argue that Defendants reasonably believed that Trade Secret 4, which showed ways and means of producing TiO₂, was a compilation and combination of DuPont

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trade secrets regarding that manufacturing process.

7. The Second Superseding Indictment alleges that Trade Secret 1 includes Trade Secret 5. The United States will argue that Defendants reasonably believed that Trade Secret 5, which showed ways and means of producing TiO₂, was a compilation and combination of DuPont trade secrets regarding that manufacturing process.

Respectfully submitted,

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Dated: July 1, 2013

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