ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Product/Process Area – HALS (UV3346, UV3529, UV4593, UV4611, UV4801, UV4802, UV6435, UV6460)					
076X	076E	Formic Acid Storage Tank	11/1992	12,000 gal	NA
06CX	06EE	Step II Reactor; Condenser (3-6CD3); Condenser 06EC (3-6CD3A)	--	--	NA
	06FE	Industrial hygiene vent for Step II Reactor	--	--	NA
06EY	06EE	Splitter Bowl	--	--	NA
07AX	07AE	Step I Reactor; Condenser (3-7CD4); Condenser (3-7CD4A)	--	--	NA
	07CE	Industrial hygiene vent for Step I Reactor	--	--	07CC
07BX	07BE	Waste Hold Tank	--	--	NA
07DX	09CE	Toluene Receiver	--	--	075C
07GX	07GE	Toluene Receiver Tank (3-7K2)	--	--	075C
07KX	07NE	Filter Feed Kettle (normal operations); Condenser (3-7CD8); Condenser (3-7CD8A)	--	--	NA
08FX	08BE	Filter (N-8F1); Condenser (3-8CD8); Condenser (3-8CD8A)	--	--	08VC
	05KE	Filter (N-8F1) (Industrial hygiene vent to atmosphere)	--	--	NA
07NY	07NE	Splitter Bowl	--	--	NA
08AX	08BE	Filter ; Condenser (3-8CD8); Condenser (3-8CD8A)	--	--	08VC
	05KE	Filter Industrial hygiene vent to atmosphere)	--	--	NA
08BX	08BE	Filter Aid Tank; Condenser (3-8CD8); Condenser (3-8CD8A)	--	--	08VC
	05KE	Industrial hygiene vent for Filter Aid Tank	--	--	NA
08RX	08RE	Pastillator	--	--	08RC
09AX	09AE	Strip Receiver (3-9K3) Condenser (3-9CD3)	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
09CX	09CE	Filtrate Receiver; Condenser (3-9CD4); Condenser (3-9CD4A)	--	--	NA
	09FE	Industrial hygiene vent for Filtrate Receiver	--	--	NA
09TX	NA	Knock Out Pot (3-9T4)	--	--	NA
09DX	09CE	Splitter Bowl (2-9SB4)	--	--	075C
09FX	NA	Mott Filter (3-9F3)	--	--	NA
09KX	09NE	Strip Kettle; Condenser (3-9CD2); Condenser (3-9CD2A)	--	--	NA
09PY	09PE	Condensate Receiver; Vacuum Pump (09PX); Condenser (3-9CD5); Condenser (3-9CD5A)	--	--	NA
09RX	NA	Electric Oil Heater with Hot Oil Surge Tank	--	--	NA
10CX	10CE	Step II Reactor; Condenser (3-10CD1); Condenser 10CC (3-10CD2)	--	--	NA
	10IE	Industrial hygiene vent for Step II Reactor	--	--	NA
10HX	09AE	Hot Well (1-10HWI) for Vacuum Jets (RF10VJI & RF-10VJ2)	2018	--	NA
10IX	10CE	Splitter Bowl	--	--	NA
10PX	10PE	Melt Tank	--	--	NA
10RX	NA	Electric Oil Heater with Hot Oil Surge Tank	--	--	NA
10SX	NA	Product Bin	--	--	NA
10TX	08RE	Screener	--	--	08RC
10VX	09AE	Vacuum Jet 1 (RJ-10VJI) with Condenser (RF10CDI)	2018	--	NA
		Vacuum Jet 2 (RF-10VJ2) with Condenser (RF-IOCD2)	2018	--	NA
11AX	12DE	2-11K1 Industrial Hygiene Vent	--	--	NA
	11AE	Step II Reactor; Condenser (3-12CD1); Condenser 12CC (3-12CD2)	--	--	NA
11CX	11HE	Splitter Bowl (2-11SB1)	2017		NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
11DX	11HE	Separation Tank (3-11T3); Condenser (3-11CD2); Condenser (3-11CD3)	2017		NA
11GX	11HE	Knock Out Pot (3-11KO1)	2017		NA
11RX	11HA	Toluene Strip Kettle (2-11K3)	2017		NA
11TX	09CE	Recovered Toluene Tank (1-11T2)	2017		NA
60AX	61SE	Bulk Bag Discharge Hopper (3-60HOP1)	2018		4-61COL1
60BX	58DE	Bulk Bag Discharge Hopper (3-60HOP2)	2018		3-58DC1
60CX	58DE	Bulk Bag Discharge Hopper (3-60HOP3)	2018		3-58DC1
60DX	07FE	Solids Charging System (2-60PTS1)	2018		NA
60EX	60EE	Step I Reactor (2-60K1); Condenser (4-60CD1)	2018		NA
	61SE	Industrial hygiene vent for Step I Reactor	2018		4-61COL1
58AX	07NE, 08BE, or 09AE	Rotating Plate Filter (2-58F1	2018		NA
	58AE	Industrial hygiene vent for Rotating Plate Filter (2-58F1)	2018		NA
60FX	60FE	Filtrate Receiver (2-60K2); Condenser (4-60CD2); Condenser (4-60CD3)	2018		NA
	58DE	Industrial hygiene vent for Filtrate Receiver	2018		3-58DC1
60GX	No Vent	Knock Out Pot (3-60T1)	2018		NA
60HX	11HE	Mott Filter (3-60F1)	2018		NA
59AX	59AE or 59CE	Strip Kettle (3-59K1); Condenser (4-60CD4); Condenser (4-60CD5)	2018		NA
59BX	59CE	Condensate Receiver (3-59T1)	2018		None
59CX	59CE	Vacuum Pump System (3-59P2); Condenser (3- 59CD1); Condenser (3-59CD2)	2018		None
59DX	59DE	Melt Tank (2-59K1)	2018		NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
58BX	59CE	Condensate Receiver (3-59T1)	2018		NA
58CX	59CE	Pastillator (2-58MP1)	2018		3-58DC1
56AX	58DE	Product Bin (2-56BN1)	2018		3-58DC1
56BX	58DE	Screener (1-56SCR1)	2018		3-58DC1
57AX	58DE	Drumming Station (1-57PACK1)	2018		3-58DC1
59EX, 59FX	No Vent	Electric Oil Heaters (1-59HO1, 1-59HO2)	2018		NA
60IX 60JX	No Vent	Electric Oil Heaters (1-60HO1, 1-60HO2)	2018		NA
59GX	59FE	Hot Oil Surge Tank (3-59T2)	2018		NA
60KX	60KE	Hot Oil Tank (1-60T1)	2018		NA
60LX	60LE	Steam Condensate Recovery Tank (1-60T2)	2018		NA
181X	181E	Waste Hold Tank (S-18T1)	--	--	NA
12CX	11AE	Splitter Bowl (3-12SB1)	--	--	NA
DRUM08	08RE	Drumming Station	--	--	08RC

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
07CC	07AX	07CE	Scrubber	NA
075C	07DX, 09DX, 075X	09CE	Vapor Return	NA
08VC	08AX, 08BX	08BE	Vapor Return	NA
08RC	08RX	08RE	Dust Collector	NA
4-61COL1	60AX,60EX	61SE	Scrubber	NA
3-58DC!	56AX,56BX,57AX,58CX,60BX,60CX,60FX	58DE	Dust Collector	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Product/Process Area – Triazines Solids (UV1164)					
20BX	22BE	Condensate Receiver	--	--	NA
20NX	21DE	Industrial hygiene hood over UV-1164 Reactor & Strip Kettle	--	--	NA
	20AE	Reactor With Condenser 3-20CD1 and 3-20CD1A	--	--	NA
20KX	20KE	2-19K1 Reactor with condenser 3-19CD1	--	--	NA
20LX	20AE	Splitter Bow	--	--	NA
20PX	20PE	Split Receiver	--	--	NA
20RX	20KE	Knock-out pot	--	--	NA
21WX	22QE	Industrial hygiene hood over 1164 packaging station	--	--	22QC
22BX	22QE	Industrial hygiene hood over Vacuum Tumble Dryer (1-21D1)	--	--	22QC
	22BE	Vacuum Tumble Dryer with condenser 2-21CD1	--	--	NA
21AX	21AE	Centrifuge	--	--	NA
21AY	NA	Wet Bin	--	--	NA
	22QE	Industrial hygiene hood over Wet Bin	--	--	22QC
22DX	22QE	Industrial hygiene hood over Vacuum Tumble Dryer (1-22D1)	--	--	22QC
	22BE	Vacuum Tumble Dryer with condenser 2-22CD1	--	--	NA
22CX	22BE	Condensate Receiver	--	--	NA
22MX	22ME	Solvent Storage	9/1979	2,000 gal	NA
22PX	22BE	Vacuum Pump	--	--	NA
23AX	22QE	Industrial hygiene hood over UV-1164 Packer & Drumming Station	--	--	22QC
23SX	25JE	Tank with condenser 3-23CD1	--	--	NA
24BX	24BE	Wash Tank	--	--	NA
24MX 24QX 24YX	24FE	Industrial hygiene hood over UV-1164 Reactor (2-24K2), Strip Kettle (2-24K1), Sparkler Filter (3-25SF1)	--	--	NA
24JX	24GE	Splitter Bowl	--	--	NA
24NX	24ME	Condensate Receiver	--	--	NA
24MX	24ME	Strip Kettle with Condenser 3-25CD2	--	--	NA
24PX	24PE	Vacuum Jet (LR-24VJ1)	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
24QX	24GE	UV-1164 Reactor with Condenser 3-25CD1	--	--	NA
24RX	24RE	Condensate Receiver	--	--	NA
25EX	NA	Wet Bin	--	--	NA
	22QE	Industrial hygiene hood over Wet Bin	--	--	22QC
25CX	25AE	Centrifuge	--	--	NA
26FX	22BE	Agitated Filter Dryer (2-26F1)	--	--	NA
26HX	26GE	Packaging Unit (1-26BAG1)	--	--	26GX

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
22QC	21AY, 22BX, 22DX, 23AX, 25EX	22QE	Dust Collector (RF-22DC1)	NA
26GX	26HX	26GE	Dust Collector	NA

Product/Process Area –Triazine Liquids (UV1164A, UV1164D, UV1164G, UV1164L)					
21DX	20BE	Reactor with condensers 3-22CD1 and 3-22CD1A	--	--	NA
	21DE	Industrial hygiene hood over Reactor	--	--	NA
20CX	NA	Sparkler Filter	--	--	NA
20EX	20EE	Condensate Receiver	--	--	NA
20FX	20DE	Vacuum Jet (3-19VJ1)	--	--	NA
22KX	20BE	Splitter Bowl	--	--	NA
20PX	20PE	Split Receiver	--	--	NA
24TX	24FE	Industrial hygiene hood over Triazine Liquids Drumming Station (1-24D1)	--	--	NA
Product/Process Area – A425, A2246					
20BX	22BE	Condensate Receiver	--	--	NA
20KX	20KE	Reactor with condenser 3-19CD1	--	--	NA
20RX	20KE	Knock-out Pot	--	--	NA
21AX	21AE	Centrifuge	--	--	NA
21AY	NA	Wet Bin	--	--	NA
	22QE	Industrial hygiene hood over Wet Bin	--	--	22QC
21WX	22QE	Industrial hygiene vent on Packer	--	--	22QC

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
22BX	22QE	Industrial hygiene vent on Dryer	--	--	22QC
	22BE	Dryer with Condenser (2-21CD1)	--	--	NA
22CX	22BE	Condensate Receiver	--	--	NA
22DX	22QE	Industrial hygiene vent on Dryer	--	--	22QC
	22BE	Dryer with Condenser (2-22CD1)	--	--	NA
22PX	22BE	Vacuum Pump	--	--	NA
23AX	22QE	Industrial hygiene vent on Packer	--	--	22QC
24BX	24BE	Wash Tank	--	--	NA
24JX	24GE	Splitter Bowl	--	--	NA
24MX	24FE	Industrial hygiene hood over Centrifuge Feed Kettle	--	--	NA
	24ME	Centrifuge Feed Kettle	--	--	NA
24NX	24ME	Condensate Receiver from Condenser (3-25CD2)	--	--	NA
24QX	24FE	Industrial hygiene hood over A425, A2246 Reactor	--	--	NA
	24RE	Reactor with condenser 3-25CD1	--	--	NA
24RX	24RE	Condensate Receiver	--	--	NA
25CX	25AE	Centrifuge	--	--	NA
26FX	22BE	Agitated Filter Dryer (2-26F1)	--	--	NA
26HX	26GE	Packaging Unit (1-26BAG1)	--	--	26GX
25EX	NA	Wet Bin	--	--	NA
	22QE	Industrial hygiene hood over Wet Bin	--	--	22QC

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
22QC	21AY, 21WX, 22BX, 22DX, 23AX, 25EX	22QE	Dust Collector (RF-22DC1)	NA
26GX	26HX	26GE	Dust Collector	NA

Product/Process Area – A1846

05LX	05LE	A-1846 Reactor with Condenser (3-5CD8)	--	--	05KC
05LX	05ME	Industrial hygiene vent on A-1846 Reactor	--	--	NA
05NX	05NE	Condensate Receiver (05NX); Vacuum Jet (3-6VJ7)	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
06BX	05NE	Hot Well for Vacuum Jets (3-6VJ7)	--	--	NA
06NX	05LE	Split Tank with Condenser (3-6CD8)	--	--	06VC, 05KC
06QX	06QE	Salt Wash Tank	--	--	NA
06SX	06SE	A-1846 Wash/Dehydration Reactor with Condensers (N-6CD1 & N-6CD1A)	--	--	NA
15NX	15NE	A-1846 Storage Tank (Product Accumulation Tank)	--	--	NA

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
05KC	05LX	05LE	Scrubber	NA
06VC	06NX	05LE	Vapor Return	05KC

Product/Process Area – S10104, XD-5002

06NX	05LE	Split Tank with Condenser (3-6CD8)	--	--	06VC, 05KC
05LX	05ME	A-1846 Reactor (2-5K8)	--	--	NA
05LX	05ME	Industrial hygiene vent on A-1846 Reactor	--	--	NA

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
05KC	05LX	05LE	Scrubber	NA
06VC	06NX	05LE	Vapor Return	05KC

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Product/Process Area – (Depressants (ACCO-PHOS 950, Aero 7260HFP, Aero 8860GL)					
20EX	20EE	Condenser Receiver	--	--	NA
20FX	20DE	Vacuum Jets (3-19VJ1)	--	--	NA
19AX	NA	Catalyst A Tank	2012	130 gal	NA
21DX	21DE	Industrial hygiene hood over UV-1164 Reactor & Strip Kettle	--	--	NA
	20BE	Strip Kettle with Condenser 3-22CD1 and 3-22CD1A	--	--	NA
22KX	20BE	Splitter Bowl	--	--	NA
23LX	23LE	Feed Tank	--	--	NA
	23ME	Industrial hygiene hood over Feed Tank	--	--	NA
24TX	24FE	Drumming Station	--	--	NA
261X	261E	Acrylamide/Water Mixture Storage Tank (N-26T1)	2013	18,000 gal	N/A
Product/Process Area – S-10333 (Magnetite in Water)					
21DX	21DE	Industrial hygiene hood over UV-1164 Reactor & Strip Kettle	--	--	NA
	20BE	Strip Kettle with Condenser 3-22CD1	--	--	NA
22KX	20BE	Splitter Bowl	--	--	NA
23LX	23LE	Feed Tank	--	--	NA
	23ME	Industrial hygiene hood over Feed Tank	--	--	NA
24TX	24FE	Drumming Station	--	--	NA
Product/Process Area – AY-55 DMAC					
21DX	21DE	Industrial hygiene hood over UV-1164 Reactor & Strip Kettle	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
	20BE	Strip Kettle with Condenser 3-22CD1 and 3-22CD1A	--	--	NA
22KX	20BE	Splitter Bowl	--	--	NA
20EX	20EE	Condensate Receiver	--	--	NA
20FX	20DE	Vacuum Jet (3-19VJ1)	--	--	NA
24TX	24FE	Drumming Station	--	--	NA
Product/Process Area – A1790					
102X	11ME	Mother Liquor Tank	--	--	10VC, 15VC
111X	11ME	Mother Liquor Tank	--	--	10VC, 15VC
112X	11ME	Mother Liquor Tank	--	--	10VC, 15VC
1-21CV1	NA	Conveyor	--	--	NA
12LX	12CE	Centrifuge Feed Tank with Condenser (3-13CD1)	--	--	18VC, 11VC
12LX	12DE	Industrial hygiene vent on Centrifuge Feed Tank	--	--	NA
13BY	13GE	Condensate Receiver and Vacuum Pump (13GX)	--	--	NA
13HX	13HE	Centrifuge	--	--	NA
13CX	13HE	Condensate Receiver (3-13T1)	2018	--	NA
13JX	13JE	Industrial hygiene vent on Dryer	--	--	13JC
13JX	13GE	Dryer and Condenser (1-13CD1)	--	--	NA
13KX	NA	Dry Bin	--	--	NA
13LX	NA	Screener	--	--	NA
13MX	NA	Conveyor	--	--	NA
13NX	13JE	Industrial hygiene vent on Bagger	--	--	13JC
13HY	NA	Wet Bin	--	--	NA
14CX	14CE	Wash Tank	--	--	NA
14FX	14BE	Reactor and Condensers (3-14CD2 & 3-14CD4)	--	--	NA
14FX	14EE	Industrial hygiene vent on Reactor (14FX)	--	--	NA
14GY	14GE	Condensate Receiver and Condenser (1-14CD1) and Vacuum Pump (15CX)	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
14HX	14DE	Reactor and Condensers (3-14CD1 & 3-14CD3)	--	--	NA
14HX	14EE	Industrial hygiene vent on Reactor (14HX)	--	--	NA
15BX	13JE	Industrial hygiene vent on Dryer	--	--	13JC
15BX	14GE	Vacuum Dryer	--	--	NA
15EX	15EE	Centrifuge	--	--	NA
15EY	NA	Wet Bin	--	--	NA
	13JE	Industrial hygiene hood over Wet Bin	--	--	13JC
15FX	15FE	Wash Tank	--	--	NA
15PX	NA	Dry Bin	--	--	NA
15QX	NA	Screener	--	--	NA
16JX	16JE	Reactor	--	--	NA
16JX	18JE	Industrial hygiene vent on Split Recycle (16JX)	--	--	NA
16UX	16CE	Reactor with Condenser (3-16CD1 & 3-16CD5)	--	--	NA
16UX	18JE	Industrial hygiene vent on Reactor (16UX)	--	--	NA
16WX	16BE	Vacuum Strip Crystallizer with Condenser (3-16CD2)	--	--	NA
16WX	18JE	Industrial hygiene vent on Reactor (16WX)	--	--	NA
16YX	NA	Conveyor	--	--	NA
16ZX	13JE	Industrial hygiene vent on Bagger	--	--	13JC
17AX	17AE	Methanol Drown Tank	--	--	NA
17GX	17QE	Split Tank	--	--	17VC
17JX	17QE	Mix Tank	--	--	17VC
17PX	17QE	Condensate Receiver	--	--	17VC
17PX	17QE	Condensate Receiver and Condensers (3-16CD3 & 3-16CD4) and Vacuum Pump (17QX)	--	--	NA
17PX	18JE	Industrial hygiene vent on Condensate Receiver (17PX)	--	--	NA
18SX	18ME	Hold Tank with Condenser (3-18CD1)	--	--	18VC, 11VC

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
20BX	22BE	Condensate Receiver and Condenser (2-21CD1) and Vacuum Pump (22PX)	--	--	NA
20KX	20KE	Reactor (2-19K1)	--	--	NA
20KX	21DE	Industrial hygiene vent on Reactor (2-19K1)	--	--	NA
20RX	20KE	Knock-out Pot	--	--	NA
21AX	21AE	Centrifuge	--	--	NA
21AW	21AW	Mother Liquor Catch Tank (3-21 T2)	--	--	NA
21AY	NA	Wet Bin	--	--	NA
	22QE	Industrial hygiene hood over Wet Bin	--	--	22QC
22BX	22QE	Industrial hygiene vent on Dryer	--	--	22QC
22BX	22BE	Dryer with Condensate Receiver (20BX) and Condenser (2-21CD1)	--	--	NA
22CX	22BE	Condensate receiver from 2-22CD1 and 22PX	--	--	NA
24BX	24BE	Wash Tank	--	--	NA
21WX	22QE	Industrial hygiene vent on Bagger	--	--	22QC
24MX	24ME	Strip Kettle (2-24K1) with condenser 3-25CD2	--	--	NA
24QX	24RE	Reactor (2-24K2) with condenser 3-25CD1	--	--	NA
24MX 24QX	24FE	Industrial hygiene hoods over Strip Kettle (2-24K1), Reactor (2-24K2)	--	--	NA
24NX	24ME	Condensate Receiver	--	--	NA
24RX	24RE	Condensate Receiver	--	--	NA
26FX	22BE	Agitated Filter Dryer (2-26F1)	--	--	NA
26HX	26GE	Packaging Unit (1-26BAG1)	--	--	26GX

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
10VC, 15VC	102X, 103X, 111X, 112X	11ME	Vapor Return	11MV
13JC	13NX, 13HY, 15BX, 15EY, 16ZX	13JE	Dust Collector	NA
18VC, 11VC	12LX, 18SX	12CE, 18ME	Vapor Return	NA
17VC	17GX, 17JX, 17PX	17PE	Vapor Return	NA
22QC	15EY, 21AY, 21WX, 22BX	22QE	Dust Collector	NA
26GX	26HX	26GE	Dust Collector	NA

Product/Process Area – A2777

13JX	13JE	Industrial hygiene vent on Dryer	--	--	13JC
13JX	13GE	Dryer and Vacuum Pump (13GX)	--	--	NA
13KX	NA	Dry Bin	--	--	NA
13LX	NA	Screener	--	--	NA
13MX	NA	Conveyor	--	--	NA
13NX	13JE	Industrial hygiene vent on Bagger	--	--	13JC
15BX	13JE	Industrial hygiene vent on Dryer	--	--	13JC
15BX	14GE	Vacuum Dryer and Vacuum Pump (15CX)	--	--	NA
15PX	NA	Dry Bin	--	--	NA
15QX	NA	Screener	--	--	NA
16YX	NA	Conveyor	--	--	NA
16ZX	13JE	Industrial hygiene vent on Bagger	--	--	13JC
21WX	22QE	Industrial hygiene vent on Packer	--	--	22QC
22BX	22QE	Industrial hygiene vent on Blender	--	--	22QC
22DX	22QE	Industrial hygiene vent on Blender	--	--	22QC
23AX	22QE	Industrial hygiene vent on Packer	--	--	22QC

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
13JC	13JX, 13NX, 15BX, 16ZX	13JE	Dust Collector	NA
22QC	21WX, 22BX, 22DX, 23AX	22QE	Dust Collector	NA

Product/Process Area – CA150

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
20KX	20KW	Reactor 2-19Kl with condenser 3-19CD 1	--	--	NA
20RX	20KE	Knock-out Pot	--	--	NA
21AX	21AE	Centrifuge	--	--	NA
21AY	22QE	Wet Bin	--	--	22QC
22CX	22BE	Condensate receiver with 2-22CD1 and 22PX	--	--	NA
24BX	24BE	Wash Tank	--	--	NA
24HX	24HE	TDI Head Tank	--	--	NA
24JX	24GE	Splitter Bowl	--	--	NA
24MX	24FE	Industrial hygiene hood over Centrifuge Feed Kettle	--	--	NA
	24ME	Centrifuge Feed Kettle	--	--	NA
24NX	24ME	Condensate Receiver from Condenser (3-25CD2)	--	--	NA
24PX	24PE	Vacuum Jets & Hot Well	--	--	NA
24QX	24FE	Industrial hygiene hood over CA150 Reactor	--	--	NA
	24GE	Reactor	--	--	NA
25BX	25BE	Fluid Bed Dryer	--	--	NA
25CX	25AE	Centrifuge	--	--	NA
24CX	23AE	Vac-U-Max	--	--	23AC
25EX	22QE	Wet Bin	--	--	22QC
25TX	NA	Dry Bin	--	--	NA
26FX	22BE	Agitated Filter Dryer (2-26F1)	--	--	NA
26HX	26GE	Packaging Unit (1-26BAG1)	--	--	26GX
DRUM23	23AE	Industrial hygiene hood over drums	--	--	23AC

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
22QC	25EX	22QE	Dust Collector	NA
23AC	DRUM23	23AE	Dust Collector	NA
26GX	26HX	26GE	Dust Collector	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Product/Process Area – CIP200					
21AX	21AE	Centrifuge	--	--	NA
21AY	22QE	Wet Bin	--	--	22QC
22GX	22QE	Industrial hygiene vent on Tray Dryer	--	--	22QC
24BX	24BE	Methanol Tank	--	--	NA
24JX	24GE	Splitter Bowl	--	--	NA
24MX	24FE	Industrial hygiene hood over Crystallizer Strip Kettle	--	--	NA
	24ME	Crystallizer Strip Kettle	--	--	NA
24NX	24ME	Condensate Receiver from Condenser (3-25CD2)	--	--	NA
24PX	24PE	Vacuum Jets & Hot Well	--	--	NA
24QX	24FE	Industrial hygiene hood over CIP-200 Reactor	--	--	NA
	24GE	Reactor	--	--	NA
24RX	24RE	Condensate Receiver from Condenser (3-25CD1)	--	--	NA
24YX	24FE	Industrial hygiene hood over Sparkler Filter	--	--	NA
25CX	25AE	Centrifuge	--	--	NA
25EX	22QE	Wet Bin	--	--	22QC
DRUM24	22QE	Industrial hygiene vent on drumming station	--	--	22QC

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
10VC, 15VC	102X, 103X, 111X, 112X	11ME	Vapor Return	11MV
22QC	22GX, DRUM22	22QE	Dust Collector	NA

Product/Process Area – UV416					
21AX	21AE	Centrifuge	--	--	NA
21AY	22QE	Industrial hygiene vent on Wet Bin	--	--	22QC
21WX	22QE	Industrial hygiene vent on Packer & Drumming Station	--	--	22QC
22GX	22QE	Industrial hygiene vent on Tray Dryer	--	--	22QC

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
	22GE	Tray Dryer	--	--	NA
24BX	24BE	Wash Tank	--	--	NA
24JX	24GE	Splitter Bowl	--	--	NA
24MX	24FE	Industrial hygiene hood over Crystallizer Kettle	--	--	NA
	24ME	Crystallizer Kettle	--	--	NA
24NX	24ME	Condensate Receiver from Condenser (3-25CD2)	--	--	NA
24QX	24FE	Industrial hygiene hood over UV416 Reactor	--	--	NA
	24RE	Reactor	--	--	NA
25CX	25AE	Centrifuge	--	--	NA
25EX	22QE	Industrial hygiene vent on Wet Bin	--	--	22QC
DRUM22	24FE	Industrial hygiene hood over drumming station	--	--	NA

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
22QC	21AY, 21WX, 22GX, 23AX, 25EX	22QE	Dust Collector	NA

Product/Process Area - UV2126

20EX	20EE	Condensate Receiver	--	--	NA
20FX	20DE	Vacuum Jet (3-19VJ1)	--	--	NA
20KX	20KE	Solvent Recycle Tank	--	--	NA
20NX	20AE	UV-1164 Reactor with Condenser 3-20CD1	--	--	NA
21DX	21DE	Industrial hygiene hood over UV-1164 Reactor & Strip Kettle	--	--	NA
	20BE	Strip Kettle with Condenser 3-22CD1	--	--	NA
22KX	20BE	Splitter Bowl	--	--	NA
22MX	22ME	Solvent Storage	9/1979	2,000 gal	NA
21AX	21AE	Centrifuge	--	--	NA
21AY	22QE	Industrial hygiene vent on Wet Bin	--	--	22QC
21WX	22QE	Industrial hygiene vent on Packer & Drumming Station	--	--	22QC
22GX	22GE	Tray Dryer	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
	22QE	Industrial hygiene vent on Tray Dryer	--	--	22QC
24BX	24BE	Wash Tank	--	--	NA
24MX	24FE	Industrial hygiene hood over Crystallizer Strip Kettle	--	--	NA
	24ME	Crystallizer Strip Kettle	--	--	NA
24NX	24ME	Condensate Receiver from Condenser (3-25CD2)	--	--	NA
24PX	24PE	Vacuum Jets & Hot Well	--	--	NA
24QX	24RE	UV2126 Reactor	--	--	NA
	24FE	Industrial hygiene hood over UV2126 Reactor	--	--	NA
24RX	24RE	Condensate Receiver from Condenser (3-25CD1)	--	--	NA
25CX	25AE	Centrifuge	--	--	NA
25EX	22QE	Industrial hygiene vent on Wet Bin	--	--	22QC
DRUM22	22QE	Industrial hygiene vent on drumming station	--	--	22QC
23SX	25JE	Tank with condenser 3-23CD1	--	--	NA

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
22QC	21AY, 21WX, 22GX, 23AX, 25CX, DRUM22	22QE	Dust Collector	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Product/Process Area – UV 2908					
05LX	05LE	Reactor with Condenser (3-5CD8 & 3-5CD8A)	--	--	05KC
05LX	05ME	Industrial hygiene vent on Reactor	--	--	NA
05NX	05NE	Condensate Receiver (05NX); Vacuum Jet (3-6VJ7)	--	--	NA
06BX	05NE	Hot Well for Vacuum Jets (3-6VJ7)	--	--	NA
06NX	05LE	Split Tank with Condenser (3-6CD8)	--	--	05KC
06QX	06QE	Salt Wash Tank	--	--	NA
06SX	06SE	Wash/Dehydration Reactor with Condensers (N-6CD1 & N-6CD1A)	--	--	NA
102X	11ME	Mother Liquor Tank	--	--	10VC, 15VC
103X	11ME	Mother Liquor Tank	--	--	10VC, 15VC
111X	11ME	Mother Liquor Tank	--	--	10VC, 15VC
112X	11ME	Mother Liquor Tank	--	--	10VC, 15VC
144X	11ME	Mother Liquor Tank	--	--	14VC, 15VC
153X	11ME	Mother Liquor Tank	--	--	14VC, 15VC
1-21CV1	NA	Conveyor	--	--	NA
12LX	12CE	Centrifuge Feed Tank with Condenser (3-13CD1)	--	--	18VC, 11VC
12LX	12DE	Industrial hygiene vent on Centrifuge Feed Tank	--	--	NA
13BY	13GE	Condensate Receiver	--	--	NA
13GX	13GE	Vacuum Pump	--	--	NA
13HX	13HE	Centrifuge	--	--	NA
13JX	13GE	Dryer and Condenser (1-13CD1)	--	--	NA
13JX	13JE	Industrial hygiene vent on Dryer	--	--	13JC
13KX	NA	Dry Bin	--	--	NA
13LX	NA	Screener	--	--	NA
13MX	NA	Conveyor	--	--	NA
13NX	13JE	Industrial hygiene vent on Bagger	--	--	13JC
13HY	NA	Wet Bin	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
14CX	14CE	Wash Tank	--	--	NA
14FX	14BE	Reactor and Condensers (3-14CD2 & 3-14CD4)	--	--	NA
14FX	14EE	Industrial hygiene vent on Reactor (14FX)	--	--	NA
14GY	14GE	Condensate Receiver and Condenser (1-14CD1)	--	--	NA
14HX	14DE	Tank and Condensers (3-14CD1 & 3-14CD3)	--	--	NA
14JX	14EE	Industrial hygiene vent on Sparkler Filter	--	--	NA
15BX	13JE	Industrial hygiene vent on Dryer	--	--	13JC
15BX	14GE	Vacuum Dryer	--	--	NA
15CX	14GE	Vacuum Pump	--	--	NA
15EX	15EE	Centrifuge	--	--	NA
15EY	NA	Wet Bin	--	--	NA
15FX	15FE	Wash Tank	--	--	NA
15PX	NA	Dry Bin	--	--	NA
15QX	NA	Screener	--	--	NA
16UX	16CE	Reactor with Condenser (3-16CD1 & 3-16CD5)	--	--	NA
16UX	18JE	Industrial hygiene vent on Reactor (16UX)	--	--	NA
16WX	16BE	Vacuum Strip Crystallizer with Condenser (3-16CD2)	--	--	NA
16WX	18JE	Industrial hygiene vent on Vacuum Strip Crystallizer	--	--	NA
16YX	NA	Conveyor	--	--	NA
16ZX	13JE	Industrial hygiene vent on Bagger	--	--	13JC
17AX	17AE	Methanol Drown Tank	--	--	NA
17JX	17QE	Mix Tank	--	--	17VC
17PX	17QE	Condensate Receiver and Condensers (3-16CD3 & 3-16CD4)	--	--	17VC
17PX	18JE	Industrial hygiene vent on Condensate Receiver (17PX)	--	--	NA
17QX	17QE	Vacuum Pump	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
18SX	18ME	Hold Tank with Condenser (3-18CD1)	--	--	18VC, 11VC
20BX	22BE	Condensate Receiver	--	--	NA
20KX	20KE	Reactor (2-19K1)	--	--	NA
20KX	21DE	Industrial hygiene vent on Reactor (2-19K1)	--	--	NA
20KX	20KE	Centrifuge Feed Tank	--	--	NA
	21DE	Industrial hygiene vent on Centrifuge Feed Tank	--	--	NA
20PX	20PE	Split Receiver	--	--	NA
21AX	21AE	Centrifuge	--	--	NA
21AY	22QE	Industrial hygiene vent on Wet Bin	--	--	22QC
21WX	22QE	Industrial hygiene vent on Bagger	--	--	22QC
24MX	24ME	Strip Kettle (2-24K1)	--	--	NA
22BX	22BE	Dryer with Condensate Receiver (20BX) and Condenser (2-21CD1)	--	--	NA
22BX	22QE	Industrial hygiene vent on Dryer	--	--	22QC
22CX	22BE	Condensate Receiver	--	--	NA
22DX	22BE	Dryer with Condenser (2-22CD1)	--	--	NA
22DX	22QE	Industrial hygiene vent on Dryer	--	--	22QC
24BX	24BE	Wash Tank (3-24T1)	--	--	NA
24BX	24BE	Methanol Tank	--	--	NA
24JX	24GE	Splitter Bowl	--	--	NA
24MX	24FE	Industrial hygiene hood over Crystallizer Strip Kettle	--	--	NA
24MX	24ME	Crystallizer Strip Kettle	--	--	NA
24NX	24ME	Condensate Receiver from Condenser (3-25CD2)	--	--	NA
24PX	24PE	Vacuum Jets & Hot Well	--	--	NA
24QX	24RE	UV2908 Reactor	--	--	NA
24QX	24FE	Industrial hygiene hood over UV2908 Reactor	--	--	NA
24RX	24RE	Condensate Receiver from Condenser (3-25CD1)	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
24YX	24FE	Industrial hygiene hood over Sparkler Filter	--	--	NA
25CX	25AE	Centrifuge	--	--	NA
25EX	22QE	Industrial hygiene vent on Wet Bin	--	--	22QC
26FX	22BE	Agitated Filter Dryer (2-26F1)	--	--	NA
26HX	26GE	Packaging Unit (1-26BAG1)	--	--	26GX
DRUM22	22QE	Industrial hygiene vent on Packer (21WX) drumming station	--	--	22QC
DRUM23	23AE	Industrial hygiene vent on Packer (23AX) drumming station	--	--	23AC

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
05KC	05LX	05LE	Scrubber	NA
10VC, 15VC	102X, 103X, 111X, 112X	11ME	Vapor Return	11MV
13JC	13NX, 15BX, 16ZX	13JE	Dust Collector	NA
14VC, 15VC	144X, 153X	11ME	Vapor Return	11MV
17VC	17GX, 17JX, 17PX	17PE	Vapor Return	NA
18VC, 11VC	12LX, 18SX	12CE, 18ME	Vapor Return	NA
22QC	21AY, 22BX, DRUM22, 21WX, 22DX, 23AX, 25EX	22QE	Dust Collector	NA
23AC	DRUM23	23AE	Dust Collector	NA
26GX	26HX	26GE	Dust Collector	NA

Product/Process Area – UV3638

05LX	05LE	Reactor with Condenser (3-5CD8)	--	--	05KC
05LX	05ME	Industrial hygiene vent on Reactor	--	--	NA
06SX	06SE	Wash/Dehydration Reactor with Condensers (N-6CD1 & N-6CD1A)	--	--	NA
102X	11ME	Mother Liquor Tank	--	--	10VC, 15VC
103X	11ME	Mother Liquor Tank	--	--	10VC, 15VC
111X	11ME	Mother Liquor Tank	--	--	10VC, 15VC
112X	11ME	Mother Liquor Tank	--	--	10VC, 15VC
1-21CV1	NA	Conveyor	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
12LX	12CE	Centrifuge Feed Tank with Condenser (3-13CD1)	--	--	18VC, 11VC
12LX	12DE	Industrial hygiene vent on Centrifuge Feed Tank	--	--	NA
13HX	13HE	Centrifuge	--	--	NA
13HY	NA	Wet Bin	--	--	NA
144X	11ME	Mother Liquor Storage Tank	--	--	14VC, 15VC
14CX	14CE	Wash Tank	--	--	NA
14FX	14BE	Reactor and Condensers (3-14CD2 & 3-14CD4)	--	--	NA
14FX	14EE	Industrial hygiene vent on Reactor (14FX)	--	--	NA
14HX	14DE	Reactor and Condensers (3-14CD1 & 3-14CD3)	--	--	NA
14HX	14EE	Industrial hygiene vent on Reactor (14HX)	--	--	NA
153X	11ME	Mother Liquor Storage Tank	--	--	14VC, 15VC
15EX	15EE	Centrifuge	--	--	NA
15EY	NA	Wet Bin	--	--	NA
15FX	15FE	Wash Tank	--	--	NA
16JX	17QE	TLC Mix Tank	--	--	NA
16JX	18JE	Industrial hygiene vent on Split Recycle (16JX)	--	--	NA
16UX	16CE	Reactor with Condenser (3-16CD1 & 3-16CD5)	--	--	NA
16UX	18JE	Industrial hygiene vent on Reactor (16UX)	--	--	NA
16WX	16BE	Vacuum Strip Crystallizer with Condenser (3-16CD2)	--	--	NA
16WX	18JE	Industrial hygiene vent on Reactor (16WX)	--	--	NA
17GX	17QE	Split Tank	--	--	17VC
17JX	17QE	Split Tank	--	--	17VC
17AX	17AE	Methanol recycle tank	--	--	18VC, 11VC
17PX	17QE	Condensate Receiver and Condensers (3-16CD3 & 3-16CD4)	--	--	NA
17PX	18JE	Industrial hygiene vent on Condensate Receiver	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
18SX	18ME	Centrifuge Tank with Condenser (3-18CD1)	--	--	18VC, 11VC
18SX	18SE	Industrial hygiene vent on Centrifuge Tank	--	--	NA
20BX	22BE	Condensate Receiver	--	--	NA
20KX	21DE	Industrial hygiene hood over Centrifuge Tank (2-19K1)	--	--	NA
	20KE	Centrifuge Tank/Drumming Tank	--	--	NA
21AX	21AE	Centrifuge #4	--	--	NA
21AY	22QE	Wet Bin #4	--	--	22QC
21WX	22QE	Industrial hygiene hood over UV-1164 Packer & Drumming Station	--	--	22QC
22BX	22BE	Dryer with Condensate Receiver (20BX) and Condenser (2-21CD1)	--	--	NA
	22QE	Industrial hygiene vent on Dryer	--	--	22QC
22CX	22BE	Condensate Receiver	--	--	NA
22DX	22BE	Vacuum Tumble Dryer (1-22D1)	--	--	NA
	22QE	Industrial hygiene hood over Vacuum Tumble Dryer (1-22D1)	--	--	22QC
22PX	22BE	Vacuum Pump	--	--	NA
23AX	22QE	Industrial hygiene hood over UV-1164 Packer & Drumming Station	--	--	22QC
23PX	23DE	Mix Tank (3-23T8)	--	--	23HC
24BX	24BE	Wash Tank (3-24T1)	--	--	NA
24MX	24ME	Crystallizer Strip Kettle with Condenser (3-25CD2)	--	--	NA
24MX 24QX	24FE	Industrial hygiene hood over UV-1164 Reactor (2-24K2), Strip Kettle (2-24K1)	--	--	NA
24NX	24ME	Condensate Receiver	--	--	NA
24PX	24PE	Condensate Receiver	--	--	NA
24QX	24GE	UV-1164 Reactor	--	--	NA
24RX	24RE	Condensate Receiver	--	--	NA
24JX	24GE	Splitter Bowl	--	--	NA
25CX	25AE	Centrifuge #5	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
25EX	25AE	Wet Bin #5	--	--	NA
25HX	23NE	MIBK Storage	--	--	23HC
26FX	22BE	Agitated Filter Dryer (2-26F1)	--	--	NA
26HX	26GE	Packaging Unit (1-26BAG1)	--	--	26GX
DRUM13	13JE	Industrial hygiene vent on drumming station below Wet Bin (13HY)	--	--	13JC

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
05KC	05LX	05LE	Scrubber	NA
10VC, 15VC	102X, 103X, 111X, 112X	11ME	Vapor Return	11MV
14VC, 15VC	144X, 153X	11ME	Vapor Return	11MV
17VC	17GX, 17JX, 17PX	17PE	Vapor Return	NA
18VC, 11VC	12LX, 18SX	12CE, 18ME	Vapor Return	NA
13JC	DRUM13	13JE	Dust Collector	NA
22QC	DRUM22, 21WX, 22BX, 22DX, 23AX	22QE	Dust Collector	NA
23HC	23PX, 25HX	23DE	Vapor Return	NA
26GX	26HX	26GE	Dust Collector	NA

Product/Process Area – UV-3638IA Purification					
20KX	20KE	Reactor 2-19Kl with condenser 3-l9CDI	--	--	NA
20RX	20KE	Knock-out Pot	--	--	NA
22CX	22BE	Condensate Receiver	--	--	NA
24BX	24BE	Wash Tank	--	--	NA
24JX	24GE	Splitter Bowl	--	--	NA
24MX	24ME	Strip Kettle	--	--	NA
24NX	24ME	Condensate Receiver	--	--	NA
24PX	24PE	Vacuum Jet (LR-24VJ1)	--	--	NA
24QX	24GE	Charge & Heat Up Kettle with Condenser 3-25CD1	--	--	NA
24RX	24RE	Condensate Receiver	--	--	NA
25CX	25AE	Centrifuge	--	--	NA
25EX	22QE	Industrial hygiene hood over Wet Bin	--	--	22QC
26FX	22BE	Agitated Filter Dryer (2-26F1)	--	--	NA
26HX	26GE	Packaging Unit (1-26BAG1)	--	--	26GX

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Control Device ID	**Emission Units Controlled**	**Emission Point**	**Control Device Description**		**Next Control Device in Series**
22QC	21AY, 22BX, 21WX, 22DX, 23AX, 25EX	22QE	Dust Collector (RF-22DC1)		NA
26GX	26HX	26GE	Dust Collector		NA
Product/Process Area – Aerosol GPG-N					
21DX	20BE	Reactor with condensers 3-22CD1 and 3-22CD1A	--	--	NA
	21DE	Industrial hygiene hood over reactor	--	--	NA
22KX	20BE	Splitter Bowl	--	--	NA
20PX	20PE	Split Receiver	--	--	NA
20EX	20EE	Condensate Receiver	--	--	NA
20FX	20DE	Vacuum Jet (3-19VJ1)	--	--	NA
24TX	24FE	Drumming Station	--	--	NA
Product/Process - UHX-2000 and UHX-3000					
20EX	20EE	Condensate Receiver (3-20T1)	--	--	NA
20FX	20DE	Vacuum Jet (3-19VJ1)	--	--	NA
20LX	20AE	Splitter Bowl (2-19SB1)	--	--	NA
20NX	20AE	Strip Kettle (2-19K2) with Condensers 3-20CD1 & 3-20CD1A	--	--	NA
20PE	20PE	Split Receiver (1-20T1)	--	--	NA
21DX	21DE	Industrial Hygiene Hood Over Reactor 21DX	--	--	NA
	20BE	Reactor (2-20K1) with Condensers 3-22CD1 & 3-22CD1A	--	--	NA
22KX	20BE	Splitter Bowl (2-20SB1)	--	--	NA
24TX	24FE	Drumming Station (1-24D1)	--	--	NA
Product/Process - Solid Shell Acid					
112X	11ME	Mother Liquor Storage Tank	--	--	10VC, 15VC
153X	22ME	Mother Liquor Storage Tank	--	--	14VC, 15VC
20KX	20KE	Reactor 2-19K1 with condenser 3-19CD1	--	--	NA
20RX	20KE	Knock-out Pot	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
22CX	22BE	Condensate Receiver	--	--	NA
22PX	22BE	Vacuum Pump	--	--	NA
24BX	24BE	Wash Tank	--	--	NA
24JX	24GE	Splitter Bowl	--	--	NA
24MX	24ME	Strip Kettle (2-24K1) with Condenser 3-25CD2	--	--	NA
24QX	24RE	Reactor (2-24K2) with Condenser 3-25CD1	--	--	NA
24PX	24PE	Vacuum Jet (LR-24VJ1)	--	--	NA
24NX	24ME	Condenser Receiver	--	--	NA
24RX	24RE	Condenser Receiver	--	--	NA
26FX	22BE	Agitated Filter Dryer (2-26F1)	--	--	NA
26HX	26GE	Packaging Unit (1-26BAG1)	--	--	NA
Product/Process Area - Physical Forms					
28BX	28BE	Bulk Bag Unloader (3-28BB1)	2017	--	NA
28CX	NA	IBC Bin Discharge Station (3-28BC1)	2017	--	NA
28DX	28BE	Small Bag Unloader #1 (3-28BU1)	2017	--	NA
28EX	28BE	Small Bag Unloader #2 (3-28BU2)	2017	--	NA
28FX	28BE	Small Bag Unloader #3 (3-28BU3)	2017	--	NA
28GX	NA	K-TRON Feeder #1 (2-28FD1)	2017	--	NA
28HX	NA	K-TRON Feeder #2 (2-28FD2)	2017	--	NA
28IX	NA			--	
28JX	NA	K-TRON Feeder #3 (2-28FD3)	2017	--	NA
28KX	NA	K-TRON Feeder #4 (2-28FD4)	2017	--	NA
28MX	NA	K-TRON Feeder #5 (2-28FD5)	2017	--	NA
28NX	NA	Transfer Conveyor (2-28CV1)	2017	--	NA
29AX	NA	Small Bag Unloader #4 (3-29BU4)	2017	--	NA
29BX	NA	K-TRON Feeder #6 (2-29FD6)	2017	--	NA
29CX	28BE	K-TRON Feeder #7 (2-29FD7)	2017	--	NA
29DX	28BE	K-TRON Feeder #8 (2-29FD8)	2017	--	NA
25DX	NA	Drum Oven (82-S-25UH1)	2017	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
29TX	29TE	Feed Tank #1 (3-29T1)	2017	--	NA
30TX	30TE	Feed Tank #2 (3-30T1)	2017	--	NA
30UX	30UE	Feed Tank #3 (3-30T2)	2018	--	NA
28PX	28BE	Extruder #1 (2-28EXT1)	2017	--	NA
29QX	28BE	Extruder Die Head (2-29DH1)	2017	--	NA
28RX	28BE	Extruder #2 (2-29EXT2)	2017	--	NA
27TX	NA	Extruder Water Tank (3-27T1)	2017	--	NA
27EX	NA	Extruder Heat Exchanger (3-27EX1)	2017	--	NA
29EX	NA	Cooling Bath (2-29CB1)	2017	--	NA
30EX	NA	Cooling Bath Heat Exchanger (2-30EX1)	2017	--	NA
31DX	NA	Air Knife Dryer (2-31D1)	2017	--	NA
31PX	NA	Pelletizer (2-31PEL1)	2017	--	NA
27BX	27BE	Product Bin (3-27BN1)	2017	--	NA
27CX	NA	Product Screener (2-27SCR1)	2017	--	NA
27DX	22QE	Product Packaging (1-27PAC1)	2017	--	NA
27HX	NA	Product Surge Hopper (2-27HOP1)	2017	--	NA
22DX	22QE	Industrial hygiene hood over Vacuum Tumble Dryer (1-22D1)	2017	--	22QC
22AX	22QE	Small Bag Unloader #5 (2-22BU1)	2017	--	22QC
22VX	NA	Blender Filling Conveyor (2-22CV1)	2017	--	NA
22WX	NA	IBC Bin Filling Conveyor (1-22CV1)	2017	--	NA
22YX	22QE	IBC Bin Filling Station (1-22IBCF1)	2017	--	22QC
Product/Process Area – Batch Column					
141X	NA	Still Pot	--	--	NA
142X	NA	Batch Column with Condenser (S-14CD1)	--	--	NA
154X	11ME	Reflux Drum with Condensers (S-14CD1)	--	--	11MV
162X	11ME	Recovered Solvent Receiver	--	--	16VC, 11VC
163X	11ME	Wet Solvent Receiver	--	--	16VC, 11VC
S-15EX1	NA	Reboiler	--	--	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Control Device ID	**Emission Units Controlled**	**Emission Point**	**Control Device Description**		**Next Control Device in Series**
11MV	154X, 162X, 163X	11ME	Water Scrubber		11MW
16VC, 11VC	162X, 163X	11ME	Vapor Return		11MV
Product/Process Area – Methanol Column					
074X	11ME	Intermediate Methanol Storage Tank	3/1998	12,000 gal	11VC, 15VC
121A	11ME	Bulk Methanol Storage Tank	1/1988	39,780 gal	11VC, 15VC
112X	11ME	Mother Liquor Storage Tank	--	--	10VC, 15VC
144X	11ME	Mother Liquor Storage Tank	--	--	14VC, 15VC
153X	11ME	Mother Liquor Storage Tank	--	--	14VC, 15VC
193X	193E	Methanol Column with Condenser (S-20CD1)	--	--	NA
203X	193E	Reflux Drum	--	--	NA
Control Device ID	**Emission Units Controlled**	**Emission Point**	**Control Device Description**		**Next Control Device in Series**
10VC, 15VC	112X	11ME	Vapor Return		11MV
11VC, 15VC	074X, 121A, 163X	11ME	Vapor Return		11MV
14VC, 15VC	144X, 153X	11ME	Vapor Return		11MV
Product/Process Area – Hazardous Waste Storage Tank					
0T2X	0T2E	Waste Trailer	--	--	NA
173X	173E	Hazardous Waste Tank (S-17T2) with Condenser (S-17EX1)	7/1991	17,208 gal	NA
Product/Process Area – Raw Material Storage Tanks					
021X	021E	Morpholine Storage Tank (S- 2T1)	2/2007	15,000 gal	NA
25HX	251E	MIBK Storage Tank (N-25T1)	11/1994	18,000 gal	23HC
063X	063E	TBX Bulk Storage Tank (S-4T3)	5/1987	14,400 gal	NA
075X	075E	Toluene Storage Tank (S-7T3)	5/1989	16,800 gal	075C
121A	11ME	Bulk Methanol Storage Tank (S-10T1)	1/1988	39,780 gal	11VC, 15VC
231X	231E	MIBK Storage Tank (S-23T1)	8/1967	14,400 gal	NA

ATTACHMENT D – Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
225X	225E	Brine Storage Tank (S-22T6)	9/2000	21,000 gal	NA
241X	241E	DMF Storage Tank (S-24T1)	9/1967	9,000 gal	NA
243X	243E	ISONOX Storage Tank (S-24T2)	10/1966	12,000 gal	NA
233X	233E	Brine Storage Tank (S-22T6)	7/2001	20,000 gal	NA
271X	271E	Brine Storage Tank (S-27T1)	7/1969	10,000 gal	NA
041X 051X	041E	36% Hydrochloric Acid Bulk Storage Tanks (S-4T1/5T1)	--	--	05VC, 041C, 041S

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
05VC	041X, 051X	041E	Vapor Return	NA
041C	041X, 051X	041E	Water Scrubber	041S
041S	041X, 051X	041E	Venturi Scrubber	NA
075C	07DX, 09DX, 075X	075E	Vapor Return	NA
11VC, 15VC	121A	11ME	Vapor Return	11MV

Product/Process Area – Intermediates & Products Storage Tanks					
074X	11ME	Intermediate Methanol Storage Tank (S-4T4)	3/1998	12,000 gal	11VC, 15VC
076X	076E	Formic Acid Storage Tank (S-7T4)	11/1992	12,000 gal	NA
184X	184E	Toluene Storage Tank (N-18T2)	7/1953	17,000 gal	NA
22MX	22ME	Solvent Storage (2-22K1)	9/1979	2,000 gal	NA
P2930 Production Process					
R10100	32AE	CLF Buffer Tank	2018/2019	<3,000 gal	E70030/S70020
T20020	29CE	Polyamide Bulk Bag Unloading	2018/2019	NA	U60500
R20000	32AE	Polyamide Preparation	2018/2019	<3,000 gal	E70030/S70020
R20050	32AE	Polyamide Hold Tank	2018/2019	<1,000 gal	E70030/S70020
R20100	32AE	Epoxy Preparation	2018/2019	<1,000 gal	E70030/S70020
R20200	32AE	Curing Agent Preparation	2018/2019	<1,000 gal	E70030/S70020
T20320	29CE	PVA Bulk Bag Unloading	2018/2019	NA	U60500
R20300	28AE	PVA Preparation Vessel	2018/2019	<3,000 gal	NA
R20350	29AE	PVA Hold Tank	2018/2019	<3,000 gal	NA
K30000	32AE	Process Vessel 1	2018/2019	<3,000 gal	E70030/S70020

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Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
K30100	32AE	Process Vessel 2	2018/2019	<1,000 gal	E70030/S70020
R30600	32AE	Process Vessel 3	2018/2019	<1,000 gal	E70030/S70020
K31000	32AE	Desolvation Vessel	2018/2019	<3,000 gal	E70030/S70020
E31040	32AE	Desolvation Condenser	2018/2019	NA	E70030/S70020
S31050	32AE	Desolvation Decanter	2018/2019	<1,000 gal	E70030/S70020
R72000	32AE	Organic Recovery Tank	2018/2019	<3,000 gal	E70030/S70020
S40000	31AE	Centrifuge 1	2018/2019	NA	NA
S40500	31BE	Centrifuge 2	2018/2019	NA	NA
K40100	31AE	Wash Vessel 1	2018/2019	<3,000 gal	NA
K40200	31BE	Wash Vessel 2	2018/2019	<3,000 gal	NA
S40410	32AE	Classifier 2	2018/2019	NA	NA
S40400	32AE	Classifier 2	2018/2019	NA	NA
R71000	29DE	Waste Water Recovery Tank	2018/2019	<5,000 gal	NA
F60000	31CE	Dryer	2018/2019	<1,000 gal	NA
E60010	31CE	Dryer Condenser	2018/2019	NA	NA
R60140	29CE	Dryer Hopper	2018/2019	<1,000 gal	U60500
T60130	29CE	Mill Feeder	2018/2019	NA	U60500
B60110	32BE	Mill	2018/2019	NA	NA
S60120	32BE	Mill Product Collector	2018/2019	NA	NA
R60200	29CE	Packaging Hopper	2018/2019	<1,000 gal	U60500
Z60210	29CE	Packaging System	2018/2019	NA	U60500
R70100	29BE	Emergency Catch Tank	2018/2019	NA	NA

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Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
11VC, 15VC	074X	11ME	Vapor Return	11MV
Product/Process - Solid Shell Acid				
26GX	26HX	26GE	Dust Collector	NA
10VC, 15VC	102X, 103X, 111X, 112X	11ME	Vapor Return	11MV
14VC 15VC	144X, 153X	11ME	Vapor Return	11MV
Product/Process Area - Physical Forms				
22QC	21AY, 22BX, 22DX, 23AX, 25EX	22QE	Dust Collector (RF-22DC1)	NA
P2930 Production Process				
U60500	T20020, T20320, R60140, T60130, R60200, Z60210	29CE	Dust Collector	NA
E70030	R10100, R20000, R20050, R20100, R20200, K30000, K30100, R30600, K31000, E31040, S31050, R72000	32AE	Vent Condenser	S70020
S70020			Carbon Bed	NA

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Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device

Control Device ID	Emission Units Controlled	Emission Point	Control Device Description	Next Control Device in Series
11MV	074X, 102X, 103X, 111X, 112X, 121A, 144X, 153X, 154X, 162X, 163X	11ME	Water Scrubber	11MW
11MW	074X, 102X, 103X, 111X, 112X, 121A, 144X, 153X, 154X, 162X, 163X	11ME	Water Scrubber	11MX
11MX	074X, 102X, 103X, 111X, 112X, 121A, 144X, 153X, 154X, 162X, 163X	11ME	Water Scrubber	11MY
11MY	074X, 102X, 103X, 111X, 112X, 121A, 144X, 153X, 154X, 162X, 163X	11ME	Water Scrubber	11MZ
11MZ**	074X, 102X, 103X, 111X, 112X, 121A, 144X, 153X, 154X, 162X, 163X	11ME	Water Scrubber	NA

* The facility utilizes a flexible process. Some vessels and equipment may have multiple uses and subsequently multiple control devices/emission points. These have been listed multiple times on the equipment list.

**Scrubber 11MZ is an installed spare scrubber, to be used only if one of these scrubbers is non-operational: 11MV, 11MW, 11MX, or 11MY.

[1]For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.