

West Virginia Department of Environmental Protection

Austin Caperton
Cabinet Secretary

Title V Operating Permit Revision



For Minor Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Action Number: MM08 **SIC:** 2869
Name of Permittee: CYTEC Industries, Inc.
Facility Name/Location: Willow Island Plant
County: Pleasants
Facility Address: 1 Heilman Avenue
Willow Island, WV 26134-9801

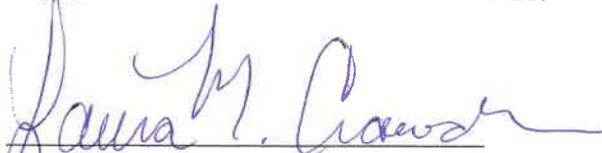
Description of Permit Revision: Addition of a new process vessel Condensate Receiver (3-13T1) to the A1790 and UV2908 Product/Process Areas; addition of new process vessels Vacuum Jet 1 (RF-10VJ1) with Condenser (RF-10CD1), Vacuum Jet 2 (RF-10VJ2) with Condenser (RF-10CD2), and Hot Well (1-10HW1) to the HALS Product/Process Area; and replacement of an existing 2,000 gallon Reactor (2-24K2) with a 2,500 gallon reactor.

Title V Permit Information:

Permit Number: R30-07300003-2016 (Part 2 of 3)
Issued Date: February 9, 2016
Effective Date: February 23, 2016
Expiration Date: February 9, 2021

Directions To Facility: From I-77, Exit 179, take State Route 2 north for approximately 10 miles. Plant is on the left (river side) of State Route 2, two miles south of Belmont, WV.

THIS PERMIT REVISION IS ISSUED IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL ACT (W.VA. CODE §§ 22-5-1 ET SEQ.) AND 45CSR30 - "REQUIREMENTS FOR OPERATING PERMITS." THE PERMITTEE IDENTIFIED AT THE FACILITY ABOVE IS AUTHORIZED TO OPERATE THE STATIONARY SOURCES OF AIR POLLUTANTS IDENTIFIED HEREIN IN ACCORDANCE WITH ALL TERMS AND CONDITIONS OF THIS PERMIT.


Laura M. Crowder
Director

June 5, 2019
Date Issued

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
	05KE	Industrial hygiene vent for Filter Aid Tank	--	--	NA
08RX	08RE	Pastillator (2-10RTF1)	--	--	08RC
09AX	09AE	Strip Receiver (3-9K3) Condenser (3-9CD3)	--	--	NA
10VX	09AE	Vacuum Jet 1 (RF-10VJ1) with Condenser (RF-10CD1)	2018	--	NA
10VX	09AE	Vacuum Jet 2 (RF-10VJ2) with Condenser (RF-10CD2)	2018	--	NA
10HX	09AE	Hot Well (1-10HW1) for Vacuum Jets (RF-10VJ1 & RF-10VJ2)	2018	--	NA
09CX	09CE	Filtrate Receiver (2-9K4); Condenser (RF-8CD1); Condenser (RF-8CD2)	--	--	NA
	09FE	Industrial hygiene vent for Filtrate Receiver	--	--	NA
09TX	09CE	Knock Out Pot (3-9T4)	--	--	NA
09DX	09CE	Splitter Bowl (2-9SB4)	--	--	075C
09FX	NA	Mott Filter (3-9F3)	--	--	NA
09KX	09NE	Strip Kettle (3-9K2); Condenser (3-9CD2); Condenser (3-9CD2A)	--	--	NA
09PY	09PE	Condensate Receiver (3-9T7); Vacuum Pump (09PX); Vacuum Blower (09BX); Condenser (3-9CD5); Condenser (3-9CD5A)	--	--	NA
09RX	NA	Electric Oil Heater with Hot Oil Surge Tank (3-9T1)	--	--	NA
10CX	10CE	Step II Reactor (2-10K3); Condenser (3-10CD1); Condenser 10CC (3-10CD2)	--	--	NA
	10IE	Industrial hygiene vent for Step II Reactor	--	--	NA
10IX	10CE	Splitter Bowl	--	--	NA
10PX	10PE	Melt Tank (3-10K2)	--	--	NA
10RX	NA	Electric Oil Heater with Hot Oil Surge Tank (3-10T8)	--	--	NA
10SX	NA	Product Bin (1-10BN1)	--	--	NA
10TX	08RE	Screener (1-10SCR1)	--	--	08RC

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
20FX	20DE	Vacuum Jet (3-19VJ1)	--	--	NA
24TX	24FE	Drumming Station	--	--	NA
Product/Process Area – A1790					
102X	11ME	Mother Liquor Tank (S-10T2)	--	--	10VC, 15VC
111X	11ME	Mother Liquor Tank (S-11T1)	--	--	10VC, 15VC
112X	11ME	Mother Liquor Tank (S-11T2)	--	--	10VC, 15VC
1-21CV1	NA	Conveyor	--	--	NA
12LX	12CE	Centrifuge Feed Tank (2-12K2) with Condenser (3-13CD1)	--	--	18VC, 11VC
12LX	12DE	Industrial hygiene vent on Centrifuge Feed Tank	--	--	NA
13BY	13GE	Condensate Receiver (1-13T2)	--	--	NA
13HX	13HE	Centrifuge (3-13W1)	--	--	NA
13CX	13HE	Condensate Receiver (3-13T1)	2018	--	NA
13JX	13JE	Industrial hygiene vent on Dryer (1-13D1)	--	--	13JC
13JX	13GE	Dryer (1-13D1) and Condenser (1-13CD1)	--	--	NA
13KX	NA	Dry Bin (1-13BN1)	--	--	NA
13LX	NA	Screener (1-13SCR1)	--	--	NA
13MX	NA	Conveyor (1-13SCV1)	--	--	NA
13NX	13JE	Industrial hygiene vent on Bagger (1-13BAG1)	--	--	13JC
13HY	NA	Wet Bin (2-13BN1)	--	--	NA
14CX	14CE	Wash Tank (3-14T1)	--	--	NA
14FX	14BE	Reactor (2-14K2) and Condensers (3-14CD2 & 3-14CD4)	--	--	NA
14FX	14EE	Industrial hygiene vent on Reactor (14FX)	--	--	NA
14GY	14GE	Condensate Receiver (1-14T2) and Condenser (1-14CD1) and Vacuum Pump (15CX))	--	--	NA
14HX	14DE	Reactor (2-14K1) and Condensers (3-14CD1 & 3-14CD3)	--	--	NA
14HX	14EE	Industrial hygiene vent on Reactor (14HX)	--	--	NA
15BX	13JE	Industrial hygiene vent on Dryer (1-15D1)	--	--	13JC
15BX	14GE	Vacuum Dryer (1-15D1)	--	--	NA

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Product/Process Area – UV 2908					
05LX	05LE	Reactor (2-5K8) 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 (S-10T2)	--	--	10VC, 15VC
103X	11ME	Mother Liquor Tank (S-10T3)	--	--	10VC, 15VC
111X	11ME	Mother Liquor Tank (S-11T1)	--	--	10VC, 15VC
112X	11ME	Mother Liquor Tank (S-11T2)	--	--	10VC, 15VC
144X	11ME	Mother Liquor Tank (S-14T4)	--	--	14VC, 15VC
153X	11ME	Mother Liquor Tank (S-15T2)	--	--	14VC, 15VC
1-21CV1	NA	Conveyor	--	--	NA
12LX	12CE	Centrifuge Feed Tank (2-12K2) with Condenser (3-13CD1)	--	--	18VC, 11VC
12LX	12DE	Industrial hygiene vent on Centrifuge Feed Tank	--	--	NA
13BY	13GE	Condensate Receiver (1-13T2)	--	--	NA
13GX	13GE	Vacuum Pump (1-13P1)	--	--	NA
13HX	13HE	Centrifuge (3-13W1)	--	--	NA
13CX	13HE	Condensate Receiver (3-13T1)	2018	--	NA
13JX	13GE	Dryer (1-13D1) and Condenser (1-13CD1)	--	--	NA
13JX	13JE	Industrial hygiene vent on Dryer	--	--	13JC
13KX	NA	Dry Bin (1-13BN1)	--	--	NA
13LX	NA	Screener (1-13SCR1)	--	--	NA
13MX	NA	Conveyor (1-13SCV1)	--	--	NA
13NX	13JE	Industrial hygiene vent on Bagger (1-13BAG1)	--	--	13JC
13HY	NA	Wet Bin (2-13BN1)	--	--	NA

1.2. Active R13, R14, and R19 Permits

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

Permit Number	Date of Issuance
R13-2156A <u>DE</u>	October 15, 2018 April 9, 2019