West Virginia Department of Environmental Protection
Division of Air Quality

Fact Sheet

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

This Fact Sheet serves to address the changes specific to this Minor Modification, and shall be considered a supplement to the Fact Sheet corresponding with the Title V operating permit issued on 01/09/2018.

Permit Number: **R30-10700001-2018**
Applications Received: **March 2, 2020 (MM04 and MM05); April 17, 2020 (MM06)**
Plant Identification Number: **10700001**
Permittee: **DuPont Specialty Products USA, LLC**
Facility Name: **Washington Works**
Business Unit: **Acetal Resin Production (Part 3 of 14)**
Mailing Address: **P.O. Box 2800, Washington, WV 26181-2800**

Permit Action Numbers: MM04, MM05, and MM06 Revised: *September 29, 2020*

Physical Location:	Washington, Wood County, West Virginia
UTM Coordinates:	442.368 km Easting • 4,346.679 km Northing • Zone 17
Directions:	Route 68 west from Parkersburg to intersection of Route 892. Continue west on Route 892 with the plant being on the north side about one mile from the intersection of Routes 68 and 892

Facility Description

MM04: This modification is related to R13-1849O. It is for the replacement of Reactor/Extraction Column "DFE". The Reactor/Extraction Column uses liquid to liquid extraction to purify an intermediate process material for final polymerization. Additionally, the permit will be changed to streamline pressure relief device maintenance procedure requirements including the facility's SSM Plan, the Generic MACT YY, and the NSR requirements of Record of Maintenance of Air Pollution Control Equipment.

MM05: This modification is related to R13-2617L. It is also for the replacement of Reactor/Extraction Column "DFE". Additionally, and specifically for this permit, the permit will remove certain pressure relief devices (D11, D12, D14, D15, D16, D17, D18, D20, D21, D27, D35, D37, D39, D40, D44, D46, D52, D57, D59, D63, D65, D66, D69) from the Attachment A Rule 21/27 requirements to streamline the

pressure relief devices maintenance procedure requirements with the facility's SSM Plan, the Generic MACT YY, and the NSR requirements of Record of Maintenance of Air Pollution Control Equipment.

MM06: This modification is related to R13-2381K and R13-2617M.

R13-2381K: This permit application was submitted to install new post blending operations, install new rework stations to replace old rework stations, to update emission factors, and to represent as built Finish Area operations.

R13-2617M: Based upon previous emission testing, some very small amounts of formaldehyde, methanol, and other hydrocarbons (VOCs) have been detected during the transfer and processing of bulk fluff and/or polyacetal cubes from off gassing. For this reason, emissions of formaldehyde, methanol, volatile organic compounds (VOC), and total hazardous air pollutants (THAPs) were added to the potential emissions for the Finishing Area Equipment.

Emissions Summary

This modification results in the following emission changes:

MM04 and MM05:

Pollutant	Emissions (TPY)
Volatile Organic Compounds	0.06
Total HAPs	0.03
Benzene	0.01
Hexane	0.01
Formaldehyde	0.02
Methanol	0.01

MM06:

Pollutant	Emissions (TPY)
PM_{10}	0.24
Volatile Organic Compounds	1.15
Total HAPs	0.44
Formaldehyde	0.38
Methanol	0.48

Total:

Pollutant	Emissions (TPY)
PM_{10}	0.24
Volatile Organic Compounds	1.21
Total HAPs	0.47
Benzene	0.01
Hexane	0.01
Formaldehyde	0.40
Methanol	0.49

Title V Program Applicability Basis

With the proposed changes associated with this modification, this facility maintains the potential to emit over 100 tons per year of criteria pollutant, over 10 tons per year of a single HAP, and over 25 tons per year of aggregate HAPs. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, over 10 tons per year of a single HAP, and over 25 tons per year of aggregate HAPs, DuPont Washington Works is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

The modification to this facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR7	Particulate matter and opacity limits for manufacturing sources
	45CSR13	Construction permit requirement.
	45CSR30	Operating permit requirement.
State Only:	45CSR27	Toxic Air Pollutant limits for manufacturing sources

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

Active Permits/Consent Orders

The active permits/consent orders affected by this modification are as follows:

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit *(if any)*
R13-1849O	April 10, 2020	
R13-2381K	February 18, 2020	
R13-2617L	April 10, 2020	
R13-2617M	July 20, 2020	

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table," which may be downloaded from DAQ's website.

Determinations and Justifications

MM04:
R13-1849O

The Section 1.0 Emission Units Table has been updated as follows:

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
DFE	DOME/HZZE	Reactor Column/Extraction Column	~~Pre-June 1990~~ 2020	DOMC/HZZC Boiler/Flare
~~DHU~~	~~DHUE~~	~~Reactor Sampling~~	~~1959~~	~~None~~
~~DHV~~	~~DHVE~~	~~Reactor Sampling~~	~~1959~~	~~None~~
~~DHW~~	~~DHWE~~	~~Reactor Sampling~~	~~1959~~	~~None~~
DOJ	~~DOJE~~ DOME/HZZE	Emergency Divert (Hi-Hi O_2) from Knock-Out Pot	1995	~~None~~ DOMC/HZZC Boiler/Flare

- Updated the Section 1.2 Permit Table to include R13-1849O.

- Changed the emission limits in Table 5.1.1 as shown below:

Emission Point	Pollutant	Emission Limit	
		lbs/hr	TPY
DOME	VOC's	17.71	~~29.93~~ 29.94
	Hexane	~~0.04~~ 0.05	~~0.07~~ 0.08
HZZE	VOC's	~~78.24~~ 78.26	~~55.51~~ 55.57
	Benzene	0.02	~~0.01~~ 0.02
	Formaldehyde	~~11.22~~ 11.23	~~5.85~~ 5.87
	Hexane	~~0.14~~ 0.15	~~0.29~~ 0.30
	Methanol	0.22	~~0.14~~ 0.15
	Total HAP's	~~11.81~~ 11.82	~~6.40~~ 6.43
~~DHUE~~	~~VOC~~ ~~Formaldehyde~~ ~~Hexane~~ ~~Toluene~~ ~~THAP~~	~~1.4~~ ~~0.01~~ ~~0.02~~ ~~0.08~~ ~~0.10~~	~~5.9~~ ~~0.01~~ ~~0.05~~ ~~1.97~~ ~~2.02~~
~~DHVE~~	~~VOC~~ ~~Formaldehyde~~ ~~Hexane~~ ~~Toluene~~ ~~THAP~~	~~1.4~~ ~~0.01~~ ~~0.02~~ ~~0.08~~ ~~0.10~~	~~5.9~~ ~~0.01~~ ~~0.05~~ ~~1.97~~ ~~2.02~~

Emission Point	Pollutant	Emission Limit	
		lbs/hr	TPY
~~DHWE~~	~~VOC~~	~~1.4~~	~~5.9~~
	~~Formaldehyde~~	~~0.01~~	~~0.01~~
	~~Hexane~~	~~0.02~~	~~0.05~~
	~~Toluene~~	~~0.08~~	~~1.97~~
	~~THAP~~	~~0.10~~	~~2.02~~

- The reference to Emission Point "DDFE" was changed to "DCYE" in Table 5.1.7.2.a. The reference to "DDFE" was a typographical error.

- Conditions 5.1.12 and 5.4.7 have been revised as shown below. Conditions 5.2.13.1 and 5.2.13.2 have been added. Emission units DHU, HDV, DHW, D11, D12, D14, D15, D16, D17, D18, D20, D21, D27, D35, D37, D39, D40, D44, D46, D52, D57, D59, D63, D65, D66, and D69 have been removed from APPENDIX C.1 (Parametric Monitoring). The changes are to streamline the pressure relief device maintenance procedures in accordance with the facilities SSM Plan, Generic MACT YY, and the requirements of Condition 3.4.4.

5.1.12. **Pressure Relief Device Maintenance.** The permittee shall handle pressure relief device changes for pressure relief devices in the following manner:

5.1.12.1. Where the removal of a pressure relief device such as a conservation vent or relief valve from a storage or process vessel would otherwise result in excess emissions, the owner or the operator is permitted to remove the pressure relief device (conservation vent or relief valve) providing the following conditions are met –

1. For vessels which under normal operating conditions vent to a downstream piece of process or control equipment, a pressure relief device may be removed ~~for a period of up to 5 days~~ for maintenance, replacement, repair, calibration or inspection. ~~under the following conditions:~~

~~*i.* Upward level movement of the liquid within the vessel is restricted to 10 (ten) percent of the vessel height during the period in which the pressure relief device is removed, or~~

~~*ii.* Emissions of air contaminants due to working losses and inert gas purges for safety are restricted to less than 100 pounds per day as determine by standard engineering estimation methods during the period in which the pressure relief device is removed.~~

~~*A.* Estimation methods for the daily emission amount shall use the methods submitted for these emission points in the application for this permit.~~

5.1.12.2. Emissions occurring during the period of time the pressure relief valve is removed shall not be considered excess emissions nor will they be subject to the reporting requirements of 45 CSR 27-10.4 and 45 CSR 27-10.5 or the reporting procedure required under 45 CSR 21-5.2.

~~*(D11, D12, D14, D15, D16, D17, D18, D20, D21, D27, D35, D37, D39, D40, D44, D46, D52, D57, D59, D63, D65, D66, D69)*~~ **[45CSR13, R13-1849, 4.1.14; 45CSR§21-40.4(e) (State-Enforceable only)]**

5.4.7 To demonstrate compliance with the conditions and requirements of section 4.1.14 of this permit the permittee shall generate and keep ~~the following~~ records for each relief device ~~change –~~ in accordance with the Generic MACT Subpart YY.

~~5.4.7.1. Date and time of the removal of the relief valve and the date and time of the replacement of the relief valve.~~

~~5.4.7.2 A record of the vessel level variation (if applicable) over the period the pressure relief device was removed.~~

~~5.4.7.3 A calculation record documenting, at existing process conditions, the daily regulated pollutant emissions and the total regulated pollutant emissions for the removal period.~~

~~5.4.7.4 A copy of the procedure, logsheet, or instructions used for the relief valve exchange.~~

~~a. All records associated with the pressure relief valve exchange are to be kept for a minimum of 5 years. They shall be kept under the terms stated in Section 3.4.1 of this permit~~

~~b. The recordkeeping required under Section 4.4.12 of this permit may supplement, but does not replace any other recordkeeping or reporting required under MACT rules or LDAR reporting requirements.~~

~~(*D11, D12, D14, D15, D16, D17, D18, D20, D21, D27, D35, D37, D39, D40, D44, D46, D52, D57, D59, D63,D65, D66, and D69)~~* **[45CSR13, R13-1849, 4.4.12; 45CSR§21-40.4(e) (State-Enforceable only)]**

- The citation in Condition 5.2.13 has been corrected to 4.2.9.

MM05:
R13-2617L

- Removed the following pressure relief devices from Appendix A.1- ATTACHMENT A of R13-2617 for the Acetal Resin Production Area Only: (D11, D12, D14, D15, D16, D17, D18, D20, D21, D27, D35, D37, D38, D39, D40, D44, D46, D48, D52, D57, D58, D59, D60, D63, D65, D66, D69). Also removed these pressure relieve devices from the Section 1.0 Emission Units Table.

MM06:
R13-2617M

- Updated the Appendix A.1 – ATTACHMENT A of R13-2617 for the Acetal Resin Production Area Only as shown in PropFactSheet04 R30-10700001-2018 3 of 14 Attachment A.

- Updated the Section 1.2 Permit Table to include R13-2617M.

R13-2381K

- Updated the Section 1.2 Permit Table to include R13-2381K.

- The Section 1.0 Emission Units Table has been updated as follows:

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
Finishing				
~~DCR-S~~	~~DQC-E~~	~~Additive Preparation Equipment~~	~~2007~~	~~DQC-C Bag Filter~~
DAPREP-S	DQC-E	Additive Preparation Equipment	2007	DQC-C Bag Filter
DBAG-S	DQC-E	Packaging Bagline System	2007	DQC-C Bag Filter
DBFRCL1-S	DBFRCL1-E	Bulk Fluff Rail Car Loading #1	2006	None
DBFRCL2-S	DBFRCL2-E	Bulk Fluff Rail Car Loading #2	2006	None

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
DBFRCL3-S	DBFRCL3-E	Bulk Fluff Rail Car Loading #3	2006	None
DBFS1-S	DBFS1-E	#1 BF Storage Silo	1989	DBFS1-C Fabric Filter
DBFS2-S	DBFS2-E	#2 BF Storage Silo	1989	DBFS2-C Fabric Filter
DBFS3-S	DBFS3-E	#3 BF Storage Silo	1989	DBFS3-C Fabric Filter
DBFS4-S	DBFS4-E	#4 BF Storage Silo	1989	DBFS4-C Fabric Filter
DBFS5-S	DBFS5-E	#5 BF Storage Silo	1998	DBFS5-C Fabric Filter
DBFS6-S	DBFS6-E	#6 BF Storage Silo	1998	DBFS6-C Fabric Filter
DBFS7-S	DBFS7-E	#7 BF Storage Silo	2019	DBFS7-C Fabric Filter
DBFS8-S	DBFS8-E	#8 BF Storage Silo	2019	DBFS8-C Fabric Filter
DCMUP-S	DCMUP-E	Concentrate Make-up System	Modified 2007	DCMUP-C Fabric Filter
DLAB-S	DLAB-E	Delrin Lab Hoods	1960's	None
DPD-S	DPD-E	Finishing Area Sump	1960	None
DQH-S	DQC-E~~, DQG-E~~	#6 Ext. Fluff Bin	1960	DQC-C~~, DQG-C~~ Bag Filter~~s~~
DQI-S	DQC-E~~, DQG-E~~	#3 Ext. Fluff Bin	1960	DQC-C~~, DQG-C~~ Bag Filter~~s~~
DQJ-S	DQC-E~~, DQG-E~~	#4 Ext. Fluff Bin	1972	DQC-C~~, DQG-C~~ Bag Filter~~s~~
DQK-S	DTZ-E	#4 Ext. Sparger Bin	1972	DTZ-C Bag Filter
DQL-S	DTZ-E	#5 Ext. Fluff Bin	1981	DTZ-C Bag Filter
DQM-S	DTZ-E	#5 Ext. Sparge Bin	1981	DTZ-C Bag Filter
~~DQO-S~~	~~DQO-E~~	~~#6 Ext. Screw Conveyor~~	~~2004~~	~~None~~
~~DQP-S~~	~~DQC-E, DQG-E~~	~~#6 Ext. Wax Blender~~	~~1960~~	~~DQC-C, DQG-C Bag Filters~~

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
~~DQQ-S~~	~~DQC-E, DQG-E~~	~~#6 Ext. Ribbon Blend.~~	~~2004~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
DQR-S	DQR-E	#3 Ext. Die Hood	1970	None
~~DQT-S~~	~~DQC-E, DQG-E~~	~~#4 Ext. Conc. Blender~~	~~1988~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
DQU-S	DZB-E~~, DQV-E~~	#4 Ext. Cube Blender	1971	DZB-C Bag Filter
DQV-S	DQV-E	#6 Ext. Die Hood	2004	None
DQW-S	DZD-E	#4 Ext. Die Hood	1971	None
~~DQY-S~~	~~DQY-E~~	~~#6 Ext. Rework Conv.~~	~~2004~~	~~None~~
~~DQZ-S~~	~~DQZ-E~~	~~#3 Ext. Rework Conv.~~	~~1970~~	~~None~~
~~DRA-S~~	~~DRA-E~~	~~#3 Ext. Screw Conv.~~	~~1960~~	~~None~~
~~DRB-S~~	~~DQC-E, DQG-E~~	~~#4 Ext. Screw Conveyor~~	~~1972~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
~~DRC-S~~	~~DRC-E~~	~~#4 Ext. Rework Conveyor~~	~~1972~~	~~None~~
~~DRD-S~~	~~DTZ-E~~	~~#5 Ext. Screw Conveyor~~	~~1981~~	~~DTZ-C~~ ~~Bag Filter~~
DRCL-S	DUST-E	Cube Railcar Loading	Unknown	DUST-S /DUST-C Bag Filters
DSJ-S	DWU-E	#6 Ext. Dryer	2004	None
DSK-S	DWV-E	#3 Ext. Dryer	1970	None
DSL-S	DWW-E	#4 Ext. Dryer	1971	None
DSM-S	DWX-E	#5 Ext. Dryer	1981	None
~~DUG-S~~	~~DST-E~~	~~#6 Extruder Cube Blender~~	~~2004~~	~~DST-C~~ ~~Bag Filter~~
~~DSY-S~~	~~DQC-E, DQG-E~~	~~#4 Ext. Rework Hopper~~	~~1972~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
~~DTA-S~~	~~HFZ-E~~	~~#5 Ext. Alloy Additive Bin~~	~~1981~~	~~HFZ-P~~ ~~Bag Filter~~

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
~~DTD-S~~	~~DQC-E, DQG-E~~	~~#3 Ext. Add. Feeder~~	~~1989~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
DTE-S	DQC-E~~, DQG-E~~	Capped Ribbon Blender	1960	DQC-C~~, DQG-C~~ Bag Filter~~s~~
~~DTF-S~~	~~DTF-E~~	~~CD Blower System~~	~~1980's~~	~~None~~
~~DTG-S~~	~~DTG-E~~	~~GH Blower System~~	~~1988~~	~~None~~
DTH-S	DTH-E	"A" Product Silo	1960	None
DTI-S	DTI-E	"B" Product Silo	1960	None
DTJ-S	DTJ-E	"C" Product Silo	1960	None
DTK-S	DTK-E	"D" Product Silo	1960	None
DTL-S	DTL-E	"E" Product Silo	1971	None
DTM-S	DTM-E	"F" Product Silo	1971	None
DTN-S	DTN-E	"G" Product Silo	1976	None
DTO-S	DTO-E	"H" Product Silo	1976	None
DTP-S	~~DUK-E~~ DZB-C	~~#3 Elut.~~ Bulk Cubes Silo	1989	~~DUK-C~~ DZB-C Bag Filter
~~DTQ-S~~	~~DTQ-E~~	~~#6 Ext. Melt Cut. Tank~~	~~2004~~	~~None~~
~~DTR-S~~	~~DTR-E~~	~~#3 Ext. Melt Cut Tank~~	~~1960~~	~~None~~
~~DTS-S~~	~~DTS-E~~	~~#4 Ext. Melt Cut. Tank~~	~~1972~~	~~None~~
~~DTT-S~~	~~DTT-E~~	~~#5 Ext. Melt Cut Tank~~	~~1981~~	~~None~~
~~DTV-S~~	~~DSZ-E~~	~~#6 Ext. Conc. Transfer~~	~~2004~~	~~DST-P~~ ~~Bag Filter (Process)~~ ~~DSZ-C~~ ~~Filter, In-line~~
DUB-S	DUB-E	"E" Fluidizing Blower Vent	Early 1970's	None
DUC-S	DUC-E	"K" Fluidizing Blower Vent	Early 1970's	None
DUD-S	DUD-E	"J" Fluidizing Blower Vent	2007	None
DUE-S	~~DUK-E, DZB-E~~ DUR-E	"A" Packout Silo	1961	~~DUK-C, DZB-C~~ DUR-P Bag Filters Process

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
DUF-S	~~DUK-E, DZB-E~~ DUR-E	"B" Packout Silo	1961	~~DUK-C, DZB-C~~ DUR-P Bag Filters Process
DUG-S	DUK-E	#6 Ext. Cube Blender	2004	DUK-C Bag Filter
DUI-S	~~DUK-E,~~ DZB-E	#5 Ext. ~~Cone~~ Cube Blender	1981	~~DUK-C, DBZ-C~~ DZB-C Bag Filters
DUN-S	DUK-E	#4 Ext. Prod. Hopper	1988	DUK-C Bag Filter
~~DUO-S~~	~~DUK-E~~	~~#3 Ext. Net Wt. Hopper~~	~~1989~~	~~DUK-C Bag Filter~~
DUP-S	DQE-E	~~Box Dumper Return Hopper~~ Misc. Cube Return System	1998	DQE-P Bag Filter (Process)
DUQ1-S	DUQ-E	BF Loading Station	1970	DUQ-C Fabric Filter
DUQ2-S	DUQ-E	BF Loading Station	1970	DUQ-C Fabric Filter
DUQ3-S	DUQ-E	BF Dumpling Station	1998	DUQ-C Fabric Filter
DUR-S	DUR-E	BF Pack Out Rec.	1970	DUR-P/DUR-C Fabric Filter
DUST-S	DUST-E	Central Vacuum System	Unknown	DUST-C Bag Filter
~~DVB-S~~	~~DUR-E~~	~~BF Pack Out Filt. Rec.~~	~~1970~~	~~DUR-C Fabric Filter~~
~~DVC-S~~	~~DVA-E~~	~~#1 BF Storage Silo~~	~~1989~~	~~DVA-C Fabric Filter~~
~~DVD-S~~	~~DVA-E~~	~~#2 BF Storage Silo~~	~~1989~~	~~DVA-C Fabric Filter~~
~~DVE-S~~	~~DVA-E~~	~~#3 BF Storage Silo~~	~~1989~~	~~DVA-C Fabric Filter~~
~~DVF-S~~	~~DVA-E~~	~~#4 BF Storage Silo~~	~~1989~~	~~DVA-C Fabric Filter~~
DVL-S	DVI-E	North Load Out Silo	1989	DVI-C Fabric Filter
DVM-S	DVJ-E	South Load Out Silo	1989	DVJ-C Fabric Filter
DVN-S	DVN-E	#6 Ext. Sparger (#1)	2004	None
~~DVS-S~~	~~DQY-E~~	~~#6 Ext. Rework Hopper~~	~~2004~~	~~None~~
~~DVT-S~~	~~DQZ-E~~	~~#3 Ext. Rework Hopper~~	~~1960~~	~~None~~

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
DVU-S	DRY-E~~/HCL-E~~	~~#6 Extruder Vent~~ D6 Sparger Cube Feed Conveyor	2004	DRY-~~P~~C~~, HCL-P~~ ~~Cyclones (Process)~~ Fabric Filter
DVV-S	DSN-E	~~#3 Extruder Vent~~ D3 Sparger Cube Feed Conveyor	1960	DSN-P Cyclone (Process)
DVW-S	~~DSO-E~~ DTZ-E	~~#4 Extruder Vent~~ D4 Sparger Cube Feed Conveyor	1972	~~DSO-P~~ DTZ-C ~~Cyclone (Process)~~ Bag Filter
DVX-S	DSB-E DTZ-E	~~#5 Extruder~~ D5 Sparger Cube Feed Conveyor	1981	~~DSB-P~~ DTZ-C ~~Cyclone (Process)~~ Bag Filter
DWA-S	DWA-E	~~Vacuum Unloading~~ Bulk Fluff Return System	1980's	DWA-P Bag Filter (Process)
DWB-S	DQN-E	#3 Ext. Sparge Bin	1960	None
DWC-S	~~DTZ-E,~~ DUK-E	#5 Ext. Prod. Hopper	1988	~~DTZ-C, DBZ-C~~ DUK-C Bag Filter~~s~~
~~DWE-S~~	~~DTZ-E~~	~~#5 Ext. Sparger Valve~~	~~1981~~	~~DTZ-C~~ ~~Bag Filter~~
DWF-S	HGW-E	#5 Ext. Screener	1981	None
~~DWG-S~~	~~DZB-E~~	~~#6 Ext. Screener~~	~~2004~~	~~DZB-C~~ ~~Bag Filter~~
~~DWH-S~~	~~DZB-E~~	~~#3 Ext. Screener~~	~~1960~~	~~None~~
~~DWI-S~~	~~DQC-E, DQG-E~~	~~#6 Ext. Feed Hopper~~	~~2004~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
~~DWJ-S~~	~~DQC-E, DQG-E~~	~~#4 Ext. Feed Hopper~~	~~1972~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
DWK-S	DWK-E	#4 Ext. Fines Screener	1971	None

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
~~DWL-S~~	~~DWL-E~~	~~#4 Ext. Fines Drum~~	~~1972~~	~~None~~
~~DWP-S~~	~~DTZ-E~~	~~#5 Ext. Mix Conveyor~~	~~1981~~	~~DTZ-C~~ ~~Bag Filter~~
DWQ-S	~~DQC-E/DQG-E~~ DTZ-E	#4 Ext. Wax Blender	1972	~~DQC-C, DQG-C~~ DTZ-C Bag Filter~~s~~
DWR-S	~~DQC-E/DQG-E~~ DTZ-E	#4 Ext. Blender Valve	1972	~~DQC-C, DQG-C~~ DTZ-C Bag Filter~~s~~
~~DZH-S~~	~~DZG-E~~	~~#5 Ext. Black Conc. Conv.~~	~~1981~~	~~DWD-P~~ ~~Bag Filters (Process)~~
~~GCA-S~~	~~DUW-E~~	~~#1 BF Stor. Silo F-Vent~~	~~1989~~	~~DUW-C~~ ~~Fabric Filter~~
~~GCB-S~~	~~DUX-E~~	~~#2 BF Stor. Silo F-Vent~~	~~1989~~	~~DUX-C~~ ~~Fabric Filter~~
~~GCC-S~~	~~DUY-E~~	~~#3 BF Stor. Silo F-Vent~~	~~1989~~	~~DUY-C~~ ~~Fabric Filter~~
~~GCD-S~~	~~DUZ-E~~	~~#4 BF Stor. Silo F-Vent~~	~~1989~~	~~DUZ-C~~ ~~Fabric Filter~~
HCA-S	HCA-E	#6 Ext. Sparger (#2)	2004	None
HCI-S	DUK-E	#3 Ext. Cube Blender	1988	~~DUK-C~~ DUL-C Bag Filter
HCO-S	DQC-E~~, DQG-E~~	#3 Ext. Wax Blender	1989	DQC-C~~, DQG-C~~ Bag Filter~~s~~
~~HCU-S~~	~~DTZ-E~~	~~#5 Ext. Add. Feeder~~	~~1981~~	~~DTZ-C~~ ~~Bag Filter~~
~~HCV-S~~	~~DTZ-E~~	~~#5 Ext. Blender Valve~~	~~1981~~	~~DTZ-C~~ ~~Bag Filter~~
HCX-S	DTZ-E	#5 Ext. Wax Blender	1981	DTZ-C Bag Filter
~~HCY-S~~	~~DTZ-E~~	~~#5 Ext. Wax Feeder~~	~~1981~~	~~DTZ-C~~ ~~Bag Filter~~
~~HCZ-S~~	~~DTZ-E~~	~~#5 Ext. Ribbon Blender~~	~~1981~~	~~DTZ-C~~ ~~Bag Filter~~

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
~~HDG-S~~	~~DTZ-E~~	~~#5 Extruder Additive Feeder - All Production~~	~~1981~~	~~DTZ-C Bag Filter~~
~~HDZ-S~~	~~HDZ-E~~	~~#1 Ext. Melt Cut. Tank~~	~~1997~~	~~None~~
~~HEA-S~~	~~HDW-E~~	~~#1 Ext. Wax Feeder~~	~~1997~~	~~HDW-C Bag Filter~~
HEB-S	HDY-E	#1 Ext. Screener	1997	None
~~HED-S~~	~~HDW-E~~	~~#1 Ext. Screw Conveyor~~	~~1997~~	~~HDW-C Bag Filter~~
HEE-S	HEG-E	#1 Snake Skin Stripper	2005	HEF-C Bag Filter
HEM-S	HDW-E	#1 Ext. Side Feeder	1997	HDW-C Bag Filter
~~HER-S~~	~~HDW-E~~	~~#1 Ext. TPU Feeder~~	~~1997~~	~~HDW-C Bag Filter~~
~~HES-S~~	~~HES-E~~	~~#5 BF Stor. Silo F-Vent~~	~~1998~~	~~HES-C Fabric Filter~~
~~HET-S~~	~~HET-E~~	~~#6 BF Stor. Silo F-Vent~~	~~1998~~	~~HET-C Fabric Filter~~
~~HEU-S~~	~~DVA-E~~	~~#5 BF Storage Silo~~	~~1998~~	~~DVA-C Fabric Filter~~
~~HEV-S~~	~~DVA-E~~	~~#6 BF Storage Silo~~	~~1998~~	~~DVA-C Fabric Filter~~
~~HEW-S~~	~~DZG-E~~	~~#1 Ext. Add. Conveyor~~	~~1997~~	~~HEW-P Bag Filter (Process)~~
HEY-S	HDY-E	#1 Ext. Dryer	1997	None
~~HFB-S~~	~~DTZ-E~~	~~#1 Ext. Blender Valve~~	~~1997~~	~~DTZ-C Bag Filter~~
~~HFC-S~~	~~DTZ-E~~	~~#1 Ext. Sparge Bin~~	~~1997~~	~~DTZ-C Bag Filter~~
HFD-S	HEE-E	#1 Extruder Vent D1 Sparger Cube Feed Conveyor	1997	HEE-P Cyclone (Process)
~~HFF-S~~	~~HDW-E~~	~~#1 Ext. Add. Feeder~~	~~1997~~	~~HDW-C Bag Filter~~
~~HFG-S~~	~~HDW-E~~	~~#1 Ext. Conc. Blender~~	~~1997~~	~~HDW-C Bag Filter~~

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
HFH-S	HEO-E	#1 Ext. Cube Blender	1997	HEO-C Bag Filter
HFI-S	DQM-E	#1 Ext. Sparge Bin	1997	None
HFJ-S	HEQ-E	#1 Ext. Fluff Bin	1997	None
HFL-S	DUK-E	#1 Ext. Prod. Hopper	1997	DUK-C Bag Filter
HFP-S	HFP-E	#1 Ext. Black Conc. Conveyor	1997	HFO-P Bag Filters (Process)
HFQ-S	HDW-E	~~#1 Ext. Net Wt. Hopper~~ #1 Concentrate Feeder	1997	HDW-C Bag Filter
~~HFU-S~~	~~DQC-E, DQG-E~~	~~#3 Ext. Wax Blender~~	~~1960~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
HFV-S	HFV-E	#1 Ext. Die Hood	1997	None
HFX-S	DZG-E, DZI-E	#5 Ext. TPU Transfer	1980's	HEW-P Bag Filter
~~HFW-S~~	~~HFW-E~~	~~#1 Ext. Screener Waste Drum~~	~~1997~~	~~None~~
HFY-S	DZG-E, DZI-E	#1 Ext. TPU ~~Bin/Charge Sys.~~ Transfer	1997	HER-~~P~~C Bag Filter
~~HFZ-S~~	~~HFZ-E~~	~~#5 Ext. Rework Hopper~~	~~1981~~	~~None~~
~~HGB-S~~	~~DTZ-E~~	~~#5 Ext. Feed Hopper~~	~~1981~~	~~DTZ-C~~ ~~Bag Filter~~
~~HGD-S~~	~~HGD-E~~	~~#5 Ext. Longs Drum~~	~~1981~~	~~None~~
~~HGF-S~~	~~DQC-E, DQG-E~~	~~#4 Ext. Wax Feeder~~	~~1972~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
~~HGG-S~~	~~DQC-E, DQG-E~~	~~#4 Ext. Add. Feeder~~	~~1972~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
~~HGH-S~~	~~DQC-E, DQG-E~~	~~#6 Ext. Sparger Valve~~	~~2004~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
~~HGI-S~~	~~DQC-E, DQG-E~~	~~#3 Ext. Wax Bin Valve~~	~~1960~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
~~HGK-S~~	~~HGK-E~~	~~#6 Ext. Screener Box~~	~~2004~~	~~None~~

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
~~HGL-S~~	~~HGL-E~~	~~#3 Ext. Fines Box~~	~~1960~~	~~None~~
~~HGO-S~~	~~DQC-E, DQG-E~~	~~#6 Ext. Wax Feeder~~	~~2004~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
~~HGP-S~~	~~DQC-E, DQG-E~~	~~#3 Ext. Wax Feeder~~	~~1989~~	~~DQC-C, DQG-C~~ ~~Bag Filters~~
HGT-S	HDW-E	#1 Ext. Feed Hopper	1981	HDW-C Bag Filter
HGW-S	HGW-E	#5 Die Head Vent	1981	None
HHA-S	HHA-E	D1 Rework Station	2020	None
HHB-S	HHA-E	D3 Rework Station	2020	None
HHC-S	HHA-E	D4 Rework Station	2020	None
HHD-S	HHA-E	D5 Rework Station	2020	None
HHE-S	HHA-E	D6 Rework Station	2020	None
HHJ-S	HEE-E	D1 Post Blending Station	2020	None
HHK-S	HHK-E	D3 Post Blending Station	2020	HHK-C Inline Filter
HHL-S	HHK-E	D4 Post Blending Station	2020	HHK-C Inline Filter
HHM-S	HHK-E	D5 Post Blending Station	2020	HHK-C Inline Filter
HHN-S	DRY-E	D6 Post Blending Station	2020	DZB-C Bag Filter
HOP-S	DZB-E	Hopper Truck Cube Unloading	2020	DZB-C Bag Filter
DBB-S	DBB-E	Maintenance Bead Blaster	2000	Integral to unit
DBU-S	DBU-E	Electrically Heated Burnout Oven	1985	None
DGA-S	DGA-E	Solvent Cleaning Station	2000	None
~~R200S-010~~	~~R200E-004~~	~~Oven~~	~~1980~~	~~None~~
~~R200S-011~~	~~R200E-F23~~	~~Hood~~	~~1960~~	~~None~~
~~R200S-012~~	~~R200E-004~~	~~Oven~~	~~1980~~	~~None~~
~~R200S-013~~	~~R200E-F20~~	~~Reactor~~	~~1960~~	~~None~~
~~R200S-014~~	~~R200E-F18~~	~~Reactor~~	~~1960~~	~~None~~
~~R200S-015~~	~~R200E-F23~~	~~Hood~~	~~1960~~	~~None~~

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
~~R200S-016~~	~~R200E-F22~~	~~Hood~~	~~1960~~	~~None~~
~~R200S-017~~	~~R200E-F21~~	~~Hood~~	~~1960~~	~~None~~
~~R200S-018~~	~~R200E-F20~~	~~Hood~~	~~1960~~	~~None~~
~~R200S-019~~	~~R200E-F19~~	~~Hood~~	~~1960~~	~~None~~
~~R200S-020~~	~~R200E-F18~~	~~Hood~~	~~1960~~	~~None~~
~~R200S-021~~	~~R200E-F17~~	~~Hood~~	~~1960~~	~~None~~
~~R200S-022~~	~~R200E-F16~~	~~Hood~~	~~1960~~	~~None~~
~~R200S-023~~	~~R200E-004~~	~~Oven~~	~~1980~~	~~None~~
~~R217S-001~~	~~R217E-001~~	~~Extruder~~	~~1989~~	~~None~~
~~R217S-002~~	~~R217E-001~~	~~Extruder~~	~~1985~~	~~None~~
~~R217S-003~~	~~R217E-001~~	~~Extruder~~	~~2000~~	~~None~~
~~R217S-004~~	~~R217E-001~~	~~Extruder~~	~~1979~~	~~None~~
~~R217S-005~~	~~R217E-001~~	~~Extruder~~	~~1972~~	~~None~~
~~R217S-006~~	~~R217E-002~~	~~Hood~~	~~1982~~	~~None~~
~~R217S-007~~	~~R217E-002~~	~~Oven~~	~~1982~~	~~None~~
~~R217S-008~~	~~R217E-002~~	~~Oven~~	~~1985~~	~~None~~
~~R217S-009~~	~~R217E-003~~	~~Oven~~	~~1982~~	~~None~~
~~R217S-010~~	~~R217E-003~~	~~Oven~~	~~1985~~	~~None~~
~~R217S-011~~	~~R217E-003~~	~~Oven~~	~~1985~~	~~None~~
~~R217S-012~~	~~R217E-003~~	~~Oven~~	~~1985~~	~~None~~
~~R217S-013~~	~~R217E-003~~	~~Oven~~	~~1985~~	~~None~~
~~R217S-023~~	~~R217E-001~~	~~Hood~~	~~1989~~	~~None~~
~~R217S-024~~	~~R217E-005~~	~~Tank~~	~~2000~~	~~None~~
~~200-S-211A~~	~~200-E-211-15~~	~~Research Laboratory Hood~~	~~1960~~	~~None~~
~~200-S-211B~~	~~200-E-211-16~~	~~Research Laboratory Hood~~	~~1960~~	~~None~~
~~200-S-211C~~	~~200-E-211-17~~	~~Research Laboratory Hood~~	~~1960~~	~~None~~
~~200-S-212A~~	~~200-E-212-18~~	~~Research Laboratory Hood~~	~~1960~~	~~None~~
~~200-S-212B~~	~~200-E-212-19~~	~~Research Laboratory Hood~~	~~1960~~	~~None~~
~~200-S-213A~~	~~200-E-213-20~~	~~Research Laboratory Hood~~	~~1960~~	~~None~~
~~200-S-213B~~	~~200-E-213-21~~	~~Research Laboratory Hood~~	~~1960~~	~~None~~
~~200-S-214A~~	~~200-E-214-22~~	~~Research Laboratory Hood~~	~~1960~~	~~None~~
~~200-S-214B~~	~~200-E-214-23~~	~~Research Laboratory Hood~~	~~1960~~	~~None~~
~~DBFS7-S~~	~~DBFS7-E~~	~~#7 Storage Silo~~	~~2019~~	~~DBFS7-C~~

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
~~DBFS8-S~~	~~DBFS8-E~~	~~#8 Storage Silo~~	~~2019~~	~~DBFS8-C~~

- Condition 6.1.2 has been revised to state "…the performance necessary to achieve the maximum "Controlled PM Emissions, (lb/hr)" limitations documented…" instead of "…the performance and minimum control efficiency documented…"

- Condition 6.2.1.b, which has requirements for bagfilter systems with sources having potential PM emissions in excess of 6 pounds per hour has been removed. The stations have no systems with PTE PM emissions greater than 6 pounds per hour.

- The maximum of 45 days between consecutive readings for opacity checks has been removed from Condition 6.2.2 to provide consistency throughout the facility.

- The requirements from Section 8.0 have been removed and this Section has been changed to "Reserved" as the laboratory hoods are not used for commercial production.

- The requirements from Section 9.0 have been removed and this Section has been changed to "Reserved" as the research and development activities do not increase emissions in excess of those listed in 45CSR§13A-4.1.b.

- The emission units subject to Conditions 6.1.3, 6.1.7, 6.1.8, 6.2.1, and 6.2.2 have been updated. The reference to 45CSR§30-5.1.c has been removed from the citation in Condition 6.2.2.

- Condition 6.4.7 has been added that requires records of annual emissions of criteria pollutants, hazardous air pollutants, and toxic air pollutants from R13-2381K Condition 3.1.7.

- Due to the above changes at the facility, Appendix D: R13-2381 APPENDICES D.1 and D.2 have been modified as follows:

APPENDIX A of R13-2381
Bagfilter Performance and Compliance Monitoring

Control Device ID	Emission Point ID	Uncontrolled PM Emissions (lb/hr)	Control Efficiency (%)	Controlled PM Emissions (lb/hr)	Compliance Monitoring		
					Activity	Parameter and/or Limit	Frequency
DBFS1-C	DBFS1-E	1.50	98	0.03	Opacity	20%	Monthly
DBFS2-C	DBFS2-E	1.50	98	0.03	Opacity	20%	Monthly
DBFS3-C	DBFS3-E	1.50	98	0.03	Opacity	20%	Monthly
DBFS4-C	DBFS4-E	1.50	98	0.03	Opacity	20%	Monthly
DBFS5-C	DBFS5-E	1.50	98	0.03	Opacity	20%	Monthly
DBFS6-C	DBFS6-E	1.50	98	0.03	Opacity	20%	Monthly
DBFS7-C	DBFS7-E	1.50	98	0.03	Opacity	20%	Monthly
DBFS8-C	DBFS8-E	1.50	98	0.03	Opacity	20%	Monthly
DCMUP-P	DCMUP-E	0.90	99	0.01	Opacity	20%	Monthly
DQC-C	DQC-E	~~0.01~~0.81	99.9	0.01	Opacity	20%	Monthly
~~DQC-C~~	~~DQC-E~~	~~0.01~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~

Control Device ID	Emission Point ID	Uncontrolled PM Emissions (lb/hr)	Control Efficiency (%)	Controlled PM Emissions (lb/hr)	Compliance Monitoring		
					Activity	Parameter and/or Limit	Frequency
DQE-P	DQE-E	0.04	99.9	0.01	Opacity	20%	Monthly
DRY-C	DRY-E	0.06	99.9	0.01	Opacity	20%	Monthly
DTZ-C	DTZ-E	0.45	99.9	0.01	Opacity	20%	Monthly
DUK-C	DUK-E	~~3.76~~0.02	99.9	~~0.04~~0.01	Opacity	20%	Monthly
DUL-C	DUK-E	0.02	99.9	0.01	Opacity	20%	Monthly
DUQ-C	DUQ-E	2.47	99.9	0.01	Opacity	20%	Monthly
DUR-P	DUR-E	3.30	99.0	0.01	Opacity	20%	Monthly
DUST-P	DUST-E	0.01	99%	0.01	Opacity	20%	Monthly
~~DTZ-C~~	~~DTZ-E~~	~~0.02~~	~~99.95~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
DVI-C	DVI-E	0.03	99.9	0.01	Opacity	20%	Monthly
DVJ-C	DVJ-E	0.03	99.9	0.01	Opacity	20%	Monthly
DZB-C	DZB-E	0.11	99.9	0.01	Opacity	20%	Monthly
HDW-C	HDW-E	0.01	99.9	0.01	Opacity	20%	Monthly
HEF-C	HEG-E	~~0.01~~0.02	99.9	0.01	Opacity	20%	Monthly
HEO-C	HEO-E	0.01	99.9	0.01	Opacity	20%	Monthly
HER-C	DZG-E/ DZI-E	0.02	99.9	0.01	Opacity	20%	Monthly
HEW-P	DZG-E /DZI-E	0.01	99.9	0.01	Opacity	20%	Monthly
HFO-P	HFP-E	0.01	99.9	0.01	Opacity	20%	Monthly
~~HFZ-P~~	~~HFZ-E~~	~~0.01~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DWD-P~~	~~DZG-E~~	~~20.07~~	~~99.9~~	~~0.08~~	~~Pressure Drop~~	~~0 – 7 inches of H_2O~~	~~Daily Average~~
~~HEW-P~~	~~DZG-E~~	~~20.07~~	~~99.9~~	~~0.08~~	~~Pressure Drop~~	~~0 – 5 inches of H_2O~~	~~Daily Average~~
~~HER-P~~	~~DZG-E~~	~~20.07~~	~~99.9~~	~~0.08~~	~~Pressure Drop~~	~~0 – 25 inches of H_2O~~	~~Daily Average~~
~~HFO-P~~	~~HFP-E~~	~~18.56~~	~~99.9~~	~~0.02~~	~~Pressure Drop~~	~~0 – 15 inches of H_2O~~	~~Daily Average~~
~~DST-C~~	~~DST-E~~	~~0.01~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DQE-P~~	~~DQE-E~~	~~4.06~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DUR-C~~	~~DUR-E~~	~~0.03~~	~~99.0~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~HEO-C~~	~~HEO-E~~	~~0.01~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~HET-C~~	~~HET-E~~	~~0.01~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~HES-C~~	~~HES-E~~	~~0.01~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DUZ-C~~	~~DUZ-E~~	~~0.01~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~

Control Device ID	Emission Point ID	Uncontrolled PM Emissions (lb/hr)	Control Efficiency (%)	Controlled PM Emissions (lb/hr)	Compliance Monitoring		
					Activity	Parameter and/or Limit	Frequency
~~DUY-C~~	~~DUY-E~~	~~0.01~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DUX-C~~	~~DUX-E~~	~~0.01~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DUW-C~~	~~DUW-E~~	~~0.01~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DVI-C~~	~~DVI-E~~	~~0.03~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DVJ-C~~	~~DVJ-E~~	~~0.03~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DVA-C~~	~~DVA-E~~	~~0.01~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DUQ-C~~	~~DUQ-E~~	~~2.47~~	~~99.95~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DZB-C~~	~~DZB-E~~	~~0.01~~	~~99.9~~	~~0.01~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DBFS7-C~~	~~DBFS7-E~~	~~1.50~~	~~98.0~~	~~0.03~~	~~Opacity~~	~~20%~~	~~Monthly~~
~~DBFS8-C~~	~~DBFS8-E~~	~~1.50~~	~~98.0~~	~~0.03~~	~~Opacity~~	~~20%~~	~~Monthly~~

APPENDIX B of 2381
Maximum Permitted Emission Rates

Emission Point	Control Device	Pollutant	Permitted Emissions	
			Hourly (lb/hr)	Annual (ton/yr)
DBFRCL1-E		PM_{10}	0.24	0.51
		VOC	0.01	0.01
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01
DBFRCL2-E		PM_{10}	0.24	0.51
		VOC	0.01	0.01
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01
DBFRCL3-E		PM_{10}	0.24	0.51
		VOC	0.01	0.01
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01
DBFS1-E	DBFS1-C	PM_{10}	0.03	0.14
		VOC	0.01	0.01
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01
DBFS2-E	DBFS2-C	PM_{10}	0.03	0.14
		VOC	0.01	0.01
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01
DBFS3-E	DBFS3-C	PM10	0.03	0.14
		VOC	0.01	0.01
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01
DBFS4-E	DBFS4-C	PM10	0.03	0.14
		VOC	0.01	0.01
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01
DBFS5-E	DBFS5-C	PM_{10}	0.03	0.14
		VOC	0.01	0.01
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01
DBFS6-E	DBFS6-C	PM_{10}	0.03	0.14
		VOC	0.01	0.01
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01
DBFS7-E	DBFS7-C	PM_{10}	0.03	0.14
		VOC	0.01	0.01
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01

Emission Point	Control Device	Pollutant	Permitted Emissions	
			Hourly (lb/hr)	Annual (ton/yr)
DBFS8-E	DBFS8-C	PM_{10} VOC Total HAP Formaldehyde Methanol	0.03 0.01 0.01 0.01 0.01	0.14 0.01 0.01 0.01 0.01
DCMUP-E	DCMUP-C	PM_{10} VOC Total HAP Formaldehyde Methanol	0.01 0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01 0.01
DLAB-E		VOC Total HAP Formaldehyde Methanol ~~Styrene~~	0.01 0.01 0.01 0.01 ~~0.01~~	0.01 0.01 0.01 0.01 ~~0.01~~
DPD-E		VOC Total HAP Formaldehyde	0.04 0.01 0.01	0.14 0.01 0.01
DQC-E ~~DQC-E~~	DQC-C ~~DQC-C~~	PM_{10} VOC Total HAP Formaldehyde Methanol	0.01 ~~0.13~~0.37 ~~0.09~~0.21 ~~0.09~~0.19 ~~0.01~~0.02	0.01 ~~0.58~~0.13 ~~0.37~~0.08 ~~0.36~~0.08 0.01
DQE-E	DQE-P	PM_{10} VOC Total HAP Formaldehyde Methanol	0.01 ~~0.01~~0.05 0.01 0.01 0.01	~~0.02~~0.01 ~~0.01~~0.02 0.01 0.01 0.01
DQM-E		PM_{10} VOC Total HAP Formaldehyde Methanol ~~Styrene~~	~~0.04~~0.02 ~~0.07~~0.02 ~~0.01~~0.02 ~~0.01~~0.02 0.01 ~~0.01~~	~~0.14~~0.06 ~~0.29~~0.05 0.04 0.04 0.01 ~~0.01~~
DQN-E		PM_{10} VOC Total HAP Formaldehyde Methanol ~~Styrene~~	~~0.01~~0.02 ~~0.01~~0.04 0.01 0.01 0.01 ~~0.01~~	~~0.04~~0.06 ~~0.03~~0.12 ~~0.03~~0.02 0.02 0.01 ~~0.01~~
~~DQO-E~~		~~PM_{10}~~ ~~VOC~~ ~~Total HAP~~ ~~Formaldehyde~~	~~0.010~~ ~~0.01~~ ~~0.01~~ ~~0.01~~	~~0.03~~ ~~0.01~~ ~~0.01~~ ~~0.01~~
DQR-E		VOC Total HAP Formaldehyde	0.01 0.01 0.01	0.01 0.01 0.01
DQV-E		VOC Total HAP Formaldehyde Methanol	0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01

Emission Point	Control Device	Pollutant	Permitted Emissions	
			Hourly (lb/hr)	Annual (ton/yr)
~~DQY-E~~		~~PM_{10}~~	~~0.04~~	~~0.15~~
~~DRA-E~~		~~PM_{10}~~ ~~VOC~~ ~~Total HAP~~ ~~Formaldehyde~~	~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~	~~0.03~~ ~~0.01~~ ~~0.01~~ ~~0.01~~
DRY-E ~~HCL-E~~	DRY-P ~~HCL-P~~	PM_{10} VOC Total HAP Formaldehyde Methanol	0.01 ~~0.04~~0.08 ~~0.04~~0.06 ~~0.04~~0.06 0.01	0.01 ~~0.14~~0.17 ~~0.14~~0.15 0.14 0.02
~~DSB-E~~	~~DSB-P~~	~~PM_{10}~~ ~~VOC~~ ~~Total HAP~~ ~~Formaldehyde~~ ~~Styrene~~	~~0.01~~ ~~0.04~~ ~~0.04~~ ~~0.04~~ ~~0.01~~	~~0.01~~ ~~0.16~~ ~~0.15~~ ~~0.14~~ ~~0.01~~
DSN-E	DSN-P	PM_{10} VOC Total HAP Formaldehyde Methanol	0.01 0.01 0.01 0.01 0.01	~~0.01~~0.02 0.01 0.01 0.01 0.01
~~DSO-E~~	~~DSO-P~~	~~PM_{10}~~ ~~VOC~~ ~~Total HAP~~ ~~Formaldehyde~~	~~0.01~~ ~~0.03~~ ~~0.03~~ ~~0.03~~	~~0.01~~ ~~0.11~~ ~~0.11~~ ~~0.11~~
~~DST-E~~	~~DST-C~~	~~PM_{10}~~ ~~VOC~~ ~~Total HAP~~ ~~Formaldehyde~~	~~0.01~~ ~~0.08~~ ~~0.08~~ ~~0.08~~	~~0.01~~ ~~0.33~~ ~~0.33~~ ~~0.33~~
~~DSZ-E~~	~~DSZ-C~~	~~PM_{10}~~	~~0.01~~	~~0.01~~
~~DTF-E~~		~~PM_{10}~~ ~~VOC~~ ~~Total HAP~~ ~~Formaldehyde~~	~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~	~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~
~~DTG-E~~		~~PM_{10}~~ ~~VOC~~ ~~Total HAP~~ ~~Formaldehyde~~	~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~	~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~
DTH-E		PM_{10} VOC Total HAP Formaldehyde Methanol	0.02 0.01 0.01 0.01 0.01	0.08 0.01 0.01 0.01 0.01
DTI-E		PM_{10} VOC Total HAP Formaldehyde Methanol	0.02 0.01 0.01 0.01 0.01	0.08 0.01 0.01 0.01 0.01

Emission Point	Control Device	Pollutant	Permitted Emissions	
			Hourly (lb/hr)	Annual (ton/yr)
DTJ-E		PM_{10} VOC Total HAP Formaldehyde Methanol	0.02 0.01 0.01 0.01 0.01	0.08 0.01 0.01 0.01 0.01
DTK-E		PM_{10} VOC Total HAP Formaldehyde Methanol	0.02 0.01 0.01 0.01 0.01	0.08 0.01 0.01 0.01 0.01
DTL-E		PM_{10} VOC Total HAP Formaldehyde Methanol	0.02 0.01 0.01 0.01 0.01	0.08 0.01 0.01 0.01 0.01
DTM-E		PM_{10} VOC Total HAP Formaldehyde Methanol	0.02 0.01 0.01 0.01 0.01	0.08 0.01 0.01 0.01 0.01
DTN-E		PM_{10} VOC Total HAP Formaldehyde Methanol	0.02 0.01 0.01 0.01 0.01	0.08 0.01 0.01 0.01 0.01
DTO-E		PM_{10} VOC Total HAP Formaldehyde Methanol	0.02 0.01 0.01 0.01 0.01	0.08 0.01 0.01 0.01 0.01
~~DTQ-E~~		~~VOC~~	~~0.01~~	~~0.01~~
~~DTR-E~~		~~VOC~~	~~0.01~~	~~0.01~~
~~DTS-E~~		~~VOC~~	~~0.01~~	~~0.01~~
~~DTT-E~~		~~VOC~~	~~0.01~~	~~0.01~~
DTZ-E	DTZ-C	PM_{10} VOC Total HAP Formaldehyde ~~Styrene~~ Methanol	~~0.02~~0.01 ~~0.09~~0.18 ~~0.02~~0.10 ~~0.02~~0.09 ~~0.01~~ 0.01	~~0.02~~0.01 ~~0.32~~0.59 ~~0.07~~0.34 ~~0.07~~0.30 ~~0.01~~ ~~0.01~~0.04
DUB-E		PM_{10} VOC Total HAP Formaldehyde	0.08 0.38 0.17 0.17	0.01 0.01 0.01 0.01
DUC-E		PM_{10} VOC Total HAP Formaldehyde	0.08 0.37 0.17 0.17	0.01 0.01 0.01 0.01

Emission Point	Control Device	Pollutant	Permitted Emissions	
			Hourly (lb/hr)	Annual (ton/yr)
DUD-E		PM_{10}	0.08	0.01
		VOC	0.38	0.01
		Total HAP	0.17	0.01
		Formaldehyde	0.17	0.01
DUK-E	DUK-C DUL-C	PM_{10}	0.01	~~0.03~~0.01
		VOC	~~0.79~~0.69	~~2.36~~2.33
		Total HAP	~~0.60~~0.47	~~1.56~~1.57
		Formaldehyde	~~0.57~~0.42	~~1.41~~1.40
		Methanol	~~0.01~~0.05	~~0.01~~0.17
		~~Styrene~~	~~0.34~~	~~0.15~~
DUQ-E	DUQ-C	PM_{10}	0.01	0.02
		VOC	~~0.79~~0.01	0.01
		Total HAP	~~0.60~~0.01	0.01
		Formaldehyde	~~0.57~~0.01	0.01
DUR-E	DUR-C	PM_{10}	0.01	0.01
		VOC	~~0.02~~0.03	~~0.09~~0.02
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01
DUST-E	DUST-C	PM_{10}	0.01	0.01
		VOC	0.23	0.02
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01
~~DUW-E~~		~~PM_{10}~~	~~0.01~~	~~0.01~~
		~~VOC~~	~~0.01~~	~~0.01~~
		~~Total HAP~~	~~0.01~~	~~0.01~~
		~~Formaldehyde~~	~~0.01~~	~~0.01~~
~~DUX-E~~		~~PM_{10}~~	~~0.01~~	~~0.01~~
		~~VOC~~	~~0.01~~	~~0.01~~
		~~Total HAP~~	~~0.01~~	~~0.01~~
		~~Formaldehyde~~	~~0.01~~	~~0.01~~
~~DUY-E~~		~~PM_{10}~~	~~0.01~~	~~0.01~~
		~~VOC~~	~~0.01~~	~~0.01~~
		~~Total HAP~~	~~0.01~~	~~0.01~~
		~~Formaldehyde~~	~~0.01~~	~~0.01~~
~~DUZ-E~~		~~PM_{10}~~	~~0.01~~	~~0.01~~
		~~VOC~~	~~0.01~~	~~0.01~~
		~~Total HAP~~	~~0.01~~	~~0.01~~
		~~Formaldehyde~~	~~0.01~~	~~0.01~~
~~DVA-E~~	~~DVA-C~~	~~PM_{10}~~	~~0.01~~	~~0.01~~
		~~VOC~~	~~0.01~~	~~0.01~~
		~~Total HAP~~	~~0.01~~	~~0.01~~
		~~Formaldehyde~~	~~0.01~~	~~0.01~~
DVI-E	DVI-C	PM_{10}	0.01	0.01
		VOC	0.01	0.01
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01
DVJ-E	DVJ-C	PM_{10}	0.01	0.01
		VOC	0.01	0.01
		Total HAP	0.01	0.01
		Formaldehyde	0.01	0.01

Emission Point	Control Device	Pollutant	Permitted Emissions	
			Hourly (lb/hr)	Annual (ton/yr)
DVN-E		PM_{10} VOC Total HAP Formaldehyde Methanol	~~0.04~~0.02 ~~0.07~~0.04 0.01 0.01 0.01	~~0.14~~0.06 ~~0.29~~0.12 ~~0.04~~0.02 ~~0.04~~0.02 0.01
DWA-E	DWA-P	PM_{10} VOC Total HAP Formaldehyde Methanol	0.01 0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01 0.01
DWK-E		PM_{10} VOC Total HAP Formaldehyde	0.01 0.02 0.02 0.02	0.01 0.09 0.09 0.09
DWU-E		PM_{10} VOC Total HAP Formaldehyde Methanol	0.01 0.04 0.04 0.04 0.01	0.01 0.15 0.15 0.14 0.01
DWV-E		PM_{10} VOC Total HAP Formaldehyde Methanol	0.01 0.04 0.04 0.03 0.01	0.03 0.15 0.15 0.14 0.01
DWW-E		PM_{10} VOC Total HAP Formaldehyde Methanol	0.01 0.02 0.02 0.02 0.01	0.02 0.10 0.10 0.07 0.03
DWX-E		PM_{10} VOC Total HAP Formaldehyde Methanol ~~Styrene~~	0.04 0.03 0.03 0.02 0.01 ~~0.01~~	0.16 0.10 0.10 0.10 0.01 ~~0.01~~
DZB-E	DZB-C	PM_{10} VOC Total HAP Formaldehyde Methanol	0.01 ~~0.12~~0.41 ~~0.08~~0.20 ~~0.08~~0.17 0.03	0.01 ~~0.51~~1.04 ~~0.33~~0.64 ~~0.33~~0.57 0.07
DZD-E		VOC Total HAP Formaldehyde	0.01 0.01 0.01	0.01 0.01 0.01
DZG-E DZI-E	~~HER-P~~ ~~DWD-P~~ HEW-P HER-P	PM_{10}	~~0.08~~0.01	~~0.14~~0.01
HCA-E		PM_{10} VOC Total HAP Formaldehyde Methanol	~~0.04~~0.02 ~~0.07~~0.04 0.01 0.01 0.01	~~0.14~~0.06 ~~0.28~~0.12 ~~0.04~~0.02 ~~0.04~~0.02 0.01

Emission Point	Control Device	Pollutant	Permitted Emissions	
			Hourly (lb/hr)	Annual (ton/yr)
HDW-E	HDW-C	PM_{10} VOC Total HAP Formaldehyde ~~Styrene~~	0.01 0.01 0.01 0.01 ~~0.01~~	0.01 0.01 0.01 0.01 ~~0.01~~
HDY-E		PM_{10} VOC Total HAP Formaldehyde Methanol ~~Styrene~~	0.01 0.~~04~~11 0.~~03~~10 0.02~~8~~ 0.01 ~~0.01~~	0.0~~34~~ 0.~~14~~37 0.~~12~~26 0.~~09~~25 ~~0.02~~0.01 ~~0.02~~
~~HDZ-E~~		~~VOC~~	~~0.01~~	~~0.01~~
HEE-E	HEE-P	PM_{10} VOC Total HAP Formaldehyde ~~Styrene~~ Methanol	~~0.01~~0.08 ~~0.04~~0.33 ~~0.04~~0.06 ~~0.03~~0.05 ~~0.01~~ 0.01	~~0.01~~0.27 ~~0.15~~1.11 ~~0.14~~0.15 0.14 ~~0.01~~ 0.01
HEG-E	HEF-C	PM_{10} VOC Total HAP Formaldehyde Methanol ~~Styrene~~	0.01 ~~0.12~~0.14 ~~0.08~~0.06 0.06 0.01 ~~0.02~~	~~0.03~~0.01 ~~0.53~~0.58 ~~0.32~~0.27 0.25 0.02 ~~0.08~~
HEO-E	HEO-C	PM_{10} VOC Total HAP Formaldehyde ~~Styrene~~	0.01 0.10 0.08 0.06 ~~0.02~~	0.01 0.41 0.32 0.25 ~~0.08~~
HEQ-E		PM_{10} VOC Total HAP Formaldehyde Methanol	~~0.47~~0.27 0.01 0.01 0.01 0.01	~~2.03~~0.08 0.01 0.01 0.01 0.01
~~HES-E~~		~~PM_{10}~~ ~~VOC~~ ~~Total HAP~~ ~~Formaldehyde~~	~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~	~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~
~~HET-E~~		~~PM_{10}~~ ~~VOC~~ ~~Total HAP~~ ~~Formaldehyde~~	~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~	~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~
HFP-E	HFO-P	PM_{10}	~~0.02~~0.01	~~0.09~~0.01
HFV-E		VOC Total HAP Formaldehyde ~~Styrene~~	0.01 0.01 0.01 ~~0.01~~	0.01 0.01 0.01 ~~0.01~~

Emission Point	Control Device	Pollutant	Permitted Emissions	
			Hourly (lb/hr)	Annual (ton/yr)
~~HFZ-E~~		~~PM_{10}~~	~~0.04~~	~~0.15~~
HGW-E		PM_{10} VOC Total HAP Formaldehyde ~~Styrene~~	0.01 0.01 0.01 0.01 ~~0.01~~	0.01 0.06 0.05 0.05 ~~0.01~~
HHA-E		PM_{10} VOC Total HAP Formaldehyde Methanol	0.01 0.04 0.03 0.02 0.01	0.01 0.02 0.01 0.01 0.01
HHK-E	HHK-C	PM10 VOC Total HAP Formaldehyde Methanol	0.01 0.03 0.02 0.02 0.01	0.01 0.02 0.02 0.02 0.01
~~DBFS7-E~~	~~DBFS7-C~~	~~PM_{10}~~ ~~VOC~~ ~~Total HAP~~ ~~Formaldehyde~~ ~~Methanol~~	~~0.03~~ ~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~	~~0.14~~ ~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~
~~DBFS8-E~~	~~DBFS8-C~~	~~PM_{10}~~ ~~VOC~~ ~~Total HAP~~ ~~Formaldehyde~~ ~~Methanol~~	~~0.03~~ ~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~	~~0.14~~ ~~0.01~~ ~~0.01~~ ~~0.01~~ ~~0.01~~

- When R13-2381A was issued, it included overall PM, VOCs, HAPs, Formaldehyde, and Methanol limits for the Finishing Area in Conditions 6.1.4 and 6.1.5. The Permit then included specific limits for each emission point in the Finishing Area in Condition 6.1.3 and Appendix D.2. As these emission limits overlap, and the emissions limits in Condition 6.1.3 are more stringent and show compliance with Conditions 6.1.4 and 6.1.5, Conditions 6.1.4 and 6.1.5 have been changed to "Reserved." Additionally, Conditions 6.2.3 and 6.4.5 have been revised to remove the citations to Conditions 6.1.4 and 6.1.5. Condition 3.1.9 has been revised to remove Conditions 6.1.4 and 6.1.5.

Other Changes:

- The Section 1.1 Emission Units table has been updated.

- The Emission Unit "DOG" has been removed from the Section 1.1 Emissions Units table, Table 5.1.7.2.a, and Table 5.1.7.7.1.

- The maximum of 45 days between consecutive readings for opacity checks has been removed from Condition 5.2.12 to provide consistency throughout the facility.

Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

None

Request for Variances or Alternatives

None

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Beginning Date: N/A
Ending Date: N/A

Point of Contact

All written comments should be addressed to the following individual and office:

Mike Egnor
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: 304-414-1255
michael.egnor@wv.gov

Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Response to Comments (Statement of Basis)

On August 28, 2020, Robert Keatley from DuPont Washington Works made the following comment:

5.1.16.2 The maximum gaseous flow rate from the Comparable Fuels Boiler (DOM) as measured immediately upstream of emission point DEME is 13,620 wet standard cubic feet per minute.

DEME should be DOME.

Response:
The correction has been made to the Permit Condition. There are no underlying NSR Conditions that it would conflict with.