



Carney, Jonathan W <jonathan.w.carney@wv.gov>

RE: [EXT] R30-10700182-2022 (Part 11 of 14)

1 message

Mentink, John J <JOHN.J.MENTINK@chemours.com>
To: "Carney, Jonathan W" <jonathan.w.carney@wv.gov>

Tue, Dec 21, 2021 at 12:23 PM

This -

4.4.5.In the event that an applicable MACT [Maximum Achievable Control Technology] standard is promulgated in the future that requires a Startup, Shutdown and Malfunction (SSM) Plan or the permittee voluntarily employs a SSM Plan, the SSM Plan shall supersede and replace the provisions of Section 4.4.4of this permit. The permittee shall notify the Director in writing of the adoption of such SSM Plans. [45CSR§30-5.1.c.]

Since this is an R&D facility, and R&D facilities are not included in the MACT standards – and any new process that might be commercial would require an R13 permit as well as a Title V permit modification –

I see no reason to include 4.4.5 as copied above as part of the permit. If we need to apply a MACT standard there almost a 100% surety that an SSM plan will not be allowed.

From: Carney, Jonathan W <jonathan.w.carney@wv.gov>
Sent: December 21, 2021 10:25
To: Mentink, John J <JOHN.J.MENTINK@chemours.com>
Subject: [EXT] R30-10700182-2022 (Part 11 of 14)

External email. Confirm links and attachments before opening.

John,

Why was 4.4.5 included in the subject permit? If you have no reason, do you have any objection to it being removed?

Jonathan Carney

Jonathan Carney, P.E.
Environmental Protection
NSR Air Permitting

(304) 926-0499 ext. 41247
Jonathan.W.Carney@wv.gov
601 57th St SE
Charleston, WV 25304

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<https://www.chemours.com/en/email-disclaimer>



Carney, Jonathan W <jonathan.w.carney@wv.gov>

Completeness Determination, The Chemours Company FC, LLC-Washington Works, Application No.: R30-10700182-2021(11 of 14)

1 message

Carney, Jonathan W <Jonathan.W.Carney@wv.gov>

Fri, Jun 4, 2021 at 9:55 AM

To: "nocole.t.newell@chemours.com" <nocole.t.newell@chemours.com>, "Mentink, John J" <JOHN.J.MENTINK@chemours.com>

Cc: "McCumbers, Carrie" <Carrie.McCumbers@wv.gov>

Ms. Newell,

Your Title V renewal application for a permit to operate the above referenced facility was received by this Division on April 7, 2021. After review of said application, it has been determined that the application is administratively complete as submitted. Therefore, the above referenced facility qualifies for an Application Shield.

The applicant has the duty to supplement or correct the application. Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application but prior to release of a draft permit.

The submittal of a complete application shall not affect the requirement that any source have all **preconstruction permits** required under the rules of the Division.

If during the processing of this application it is determined that additional information is necessary to evaluate or take final action on this application, a request for such information will be made in writing with a reasonable deadline for a response. Until which time as your renewal permit is issued or denied, please continue to operate this facility in accordance with 45CSR30, section 6.3.c. which states: *If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.* This protection shall cease to apply if, subsequent to the completeness determination made pursuant to paragraph 6.1.d. of 45CSR30 and as required by paragraph 4.1.b., the applicant fails to submit by the deadline specified in writing any additional information identified as being needed to process the application.

Please remember, **failure of the applicant to timely submit information required or requested to process the application may cause the Application Shield to be revoked.** Should you have any questions regarding this determination, please call me at (304)926-0499 ext. 41247.

Sincerely,

Jonathan Carney

Jonathan Carney, P.E.

Environmental Protection
NSR Air Permitting

(304) 926-0499 ext. 41247
Jonathan.W.Carney@wv.gov
601 57th St SE
Charleston, WV 25304



The Chemours Company
Washington Works
8480 DuPont Road
PO Box 1217
Washington, WV 26181

304-863-4000
chemours.com

April 07, 2021

Submitted to DEPAirQualityPermitting@wv.gov

Ms. Laura M. Crowder, Director
Division of Air Quality
WV Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304-2345

**COVER DOCUMENT FOR TITLE V PERMIT RENEWAL
R30-107-00182 Title V Permit – Segment 11 of 14 Renewal Application**

Dear Ms. Crowder:

Attached you will find the application documents and required index for the application for the renewal of the Title V Operating permit for the Research and Development [Segment 11 of 14] facilities located at the Chemours Washington Works Facility.

The attached renewal application has been completed using references to the existing documentation (Permits) and interpretive rules for terms and compliance methods rather than the relisting of each term and compliance method under each emission unit. Chemours will supply searchable PDF copies of current permits and applicable interpretive rules if needed to assist the permit writer in the assembly of the final permit document.

After careful review Chemours has concluded that there will not be a confidential version of the renewal application. Operations in R&D and the associated laboratories do not involve production processes in the same manner as an established process used for manufacturing a specific product. The generalized requirements found in 45 CSR 13A and 45 CSR 13B leave sufficient room for protection of process knowledge and lines of investigation on an individual activity basis.


If you have questions, or need clarification, the contact person for this renewal application is John J. Mentink who may be reach at (304) 863-4033 by telephone or text and at john.j.mentink@chemours.com by email.

Very truly yours;

A handwritten signature in blue ink, appearing to read 'John J. Mentink', with a long horizontal flourish extending to the right.

John J. Mentink
Environmental Sr. Principal Consultant
Chemours Washington Works

Enclosures

	<p>WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION</p> <p>DIVISION OF AIR QUALITY</p> <p>601 57th Street SE Charleston, WV 25304 Phone: (304) 926-0475 www.dep.wv.gov/daq</p>
<p>INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS</p>	

Section 1: General Information

<p>1. Name of Applicant (As registered with the WV Secretary of State's Office):</p>	<p>2. Facility Name or Location:</p>
<p>3. DAQ Plant ID No.:</p> <p style="text-align: center;">_ _ _ _ _ - - _ _ _ _ _</p>	<p>4. Federal Employer ID No. (FEIN):</p>
<p>5. Permit Application Type:</p> <p> <input type="checkbox"/> Initial Permit When did operations commence? <input type="checkbox"/> Permit Renewal What is the expiration date of the existing permit? <input type="checkbox"/> Update to Initial/Renewal Permit Application </p>	
<p>6. Type of Business Entity:</p> <p> <input type="checkbox"/> Corporation <input type="checkbox"/> Governmental Agency <input type="checkbox"/> LLC <input type="checkbox"/> Partnership <input type="checkbox"/> Limited Partnership </p>	<p>7. Is the Applicant the:</p> <p> <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Both </p> <p>If the Applicant is not both the owner and operator, please provide the name and address of the other party.</p>
<p>8. Number of onsite employees:</p>	
<p>9. Governmental Code:</p> <p> <input type="checkbox"/> Privately owned and operated; 0 <input type="checkbox"/> County government owned and operated; 3 <input type="checkbox"/> Federally owned and operated; 1 <input type="checkbox"/> Municipality government owned and operated; 4 <input type="checkbox"/> State government owned and operated; 2 <input type="checkbox"/> District government owned and operated; 5 </p>	
<p>10. Business Confidentiality Claims</p> <p>Does this application include confidential information (per 45CSR31)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY" guidance.</p>	

11. Mailing Address		
Street or P.O. Box:		
City:	State:	Zip: -
Telephone Number: () -	Fax Number: () -	

12. Facility Location		
Street:	City:	County:
UTM Easting: km	UTM Northing: km	Zone: <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
Directions:		
Portable Source? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Is facility located within a nonattainment area? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, for what air pollutants?	
Is facility located within 50 miles of another state? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, name the affected state(s).	
Is facility located within 100 km of a Class I Area¹? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, name the area(s).	
If no, do emissions impact a Class I Area¹? <input type="checkbox"/> Yes <input type="checkbox"/> No		
¹ <i>Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.</i>		

13. Contact Information		
Responsible Official:		Title:
Street or P.O. Box:		
City:	State:	Zip: -
Telephone Number: () -	Fax Number: () -	
E-mail address:		
Environmental Contact:		Title:
Street or P.O. Box:		
City:	State:	Zip: -
Telephone Number: () -	Fax Number: () -	
E-mail address:		
Application Preparer:		Title:
Company:		
Street or P.O. Box:		
City:	State:	Zip: -
Telephone Number: () -	Fax Number: () -	
E-mail address:		

14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC

Provide a general description of operations.

15. Provide an **Area Map** showing plant location as **ATTACHMENT A**.

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**.

For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C**. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

19. Non Applicability Determinations (Continued) - Attach additional pages as necessary.

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

Permit Shield

19. Non Applicability Determinations (Continued) - Attach additional pages as necessary.

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

Permit Shield

20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).

Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Are you in compliance with all facility-wide applicable requirements? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

20. Facility-Wide Applicable Requirements (Continued) - Attach additional pages as necessary.

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

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Are you in compliance with all facility-wide applicable requirements? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	
Nitrogen Oxides (NO _x)	
Lead (Pb)	
Particulate Matter (PM _{2.5}) ¹	
Particulate Matter (PM ₁₀) ¹	
Total Particulate Matter (TSP)	
Sulfur Dioxide (SO ₂)	
Volatile Organic Compounds (VOC)	
Hazardous Air Pollutants ²	Potential Emissions
Regulated Pollutants other than Criteria and HAP	Potential Emissions

¹PM_{2.5} and PM₁₀ are components of TSP.
²For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)	
<input type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.
<input type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.
<input type="checkbox"/>	3. Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
<input type="checkbox"/>	4. Bathroom/toilet vent emissions.
<input type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.
<input type="checkbox"/>	6. Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
<input type="checkbox"/>	7. Blacksmith forges.
<input type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.
<input type="checkbox"/>	9. Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
<input type="checkbox"/>	10. CO ₂ lasers, used only on metals and other materials which do not emit HAP in the process.
<input type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input type="checkbox"/>	13. Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
<input type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.
<input type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.
<input type="checkbox"/>	16. Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
<input type="checkbox"/>	17. Emergency (backup) electrical generators at residential locations.
<input type="checkbox"/>	18. Emergency road flares.
<input type="checkbox"/>	19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO _x , SO ₂ , VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units. Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:

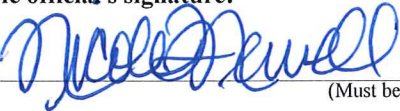
24. Insignificant Activities (Check all that apply)	
<input type="checkbox"/>	<p>20. Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis:</p>
<input type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input type="checkbox"/>	22. Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
<input type="checkbox"/>	23. Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
<input type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input type="checkbox"/>	26. Fire suppression systems.
<input type="checkbox"/>	27. Firefighting equipment and the equipment used to train firefighters.
<input type="checkbox"/>	28. Flares used solely to indicate danger to the public.
<input type="checkbox"/>	29. Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
<input type="checkbox"/>	30. Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
<input type="checkbox"/>	31. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
<input type="checkbox"/>	32. Humidity chambers.
<input type="checkbox"/>	33. Hydraulic and hydrostatic testing equipment.
<input type="checkbox"/>	34. Indoor or outdoor kerosene heaters.
<input type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input type="checkbox"/>	40. Ozone generators.

24. Insignificant Activities (Check all that apply)	
<input type="checkbox"/>	41. Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
<input type="checkbox"/>	42. Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
<input type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input type="checkbox"/>	44. Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
<input type="checkbox"/>	45. Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
<input type="checkbox"/>	46. Routing calibration and maintenance of laboratory equipment or other analytical instruments.
<input type="checkbox"/>	47. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
<input type="checkbox"/>	48. Shock chambers.
<input type="checkbox"/>	49. Solar simulators.
<input type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input type="checkbox"/>	51. Steam cleaning operations.
<input type="checkbox"/>	52. Steam leaks.
<input type="checkbox"/>	53. Steam sterilizers.
<input type="checkbox"/>	54. Steam vents and safety relief valves.
<input type="checkbox"/>	55. Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
<input type="checkbox"/>	56. Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
<input type="checkbox"/>	57. Such other sources or activities as the Director may determine.
<input type="checkbox"/>	58. Tobacco smoking rooms and areas.
<input type="checkbox"/>	59. Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table
Fill out the Title V Equipment Table and provide it as ATTACHMENT D .
26. Emission Units
For each emission unit listed in the Title V Equipment Table , fill out and provide an Emission Unit Form as ATTACHMENT E .
For each emission unit not in compliance with an applicable requirement, fill out a Schedule of Compliance Form as ATTACHMENT F .
27. Control Devices
For each control device listed in the Title V Equipment Table , fill out and provide an Air Pollution Control Device Form as ATTACHMENT G .
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the Compliance Assurance Monitoring (CAM) Form(s) for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as ATTACHMENT H .

Section 6: Certification of Information

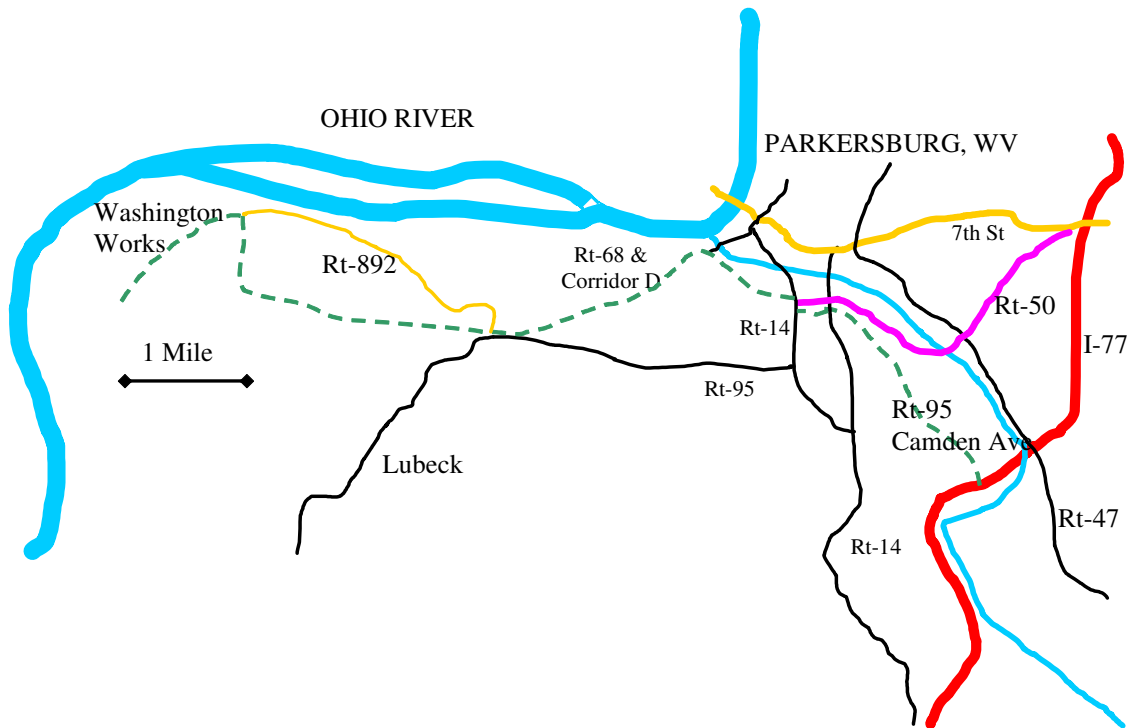
28. Certification of Truth, Accuracy and Completeness and Certification of Compliance	
<i>Note: This Certification must be signed by a responsible official. The original, signed in blue ink, must be submitted with the application. Applications without an original signed certification will be considered as incomplete.</i>	
a. Certification of Truth, Accuracy and Completeness	
I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.	
b. Compliance Certification	
Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.	
Responsible official (type or print)	
Name: Nicole T. Newell	Title: Plant Manager
Responsible official's signature:	
Signature: 	Signature Date: <u>4/7/2021</u>
<small>(Must be signed and dated in blue ink)</small>	

Note: Please check all applicable attachments included with this permit application:	
<input checked="" type="checkbox"/>	ATTACHMENT A: Area Map
<input checked="" type="checkbox"/>	ATTACHMENT B: Plot Plan(s)
<input checked="" type="checkbox"/>	ATTACHMENT C: Process Flow Diagram(s)
<input checked="" type="checkbox"/>	ATTACHMENT D: Equipment Table
<input checked="" type="checkbox"/>	ATTACHMENT E: Emission Unit Form(s)
<input type="checkbox"/>	ATTACHMENT F: Schedule of Compliance Form(s)
<input checked="" type="checkbox"/>	ATTACHMENT G: Air Pollution Control Device Form(s)
<input checked="" type="checkbox"/>	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wv.gov/dag, requested by phone (304) 926-0475, and/or obtained through the mail.

Attachment A - Map to Facility

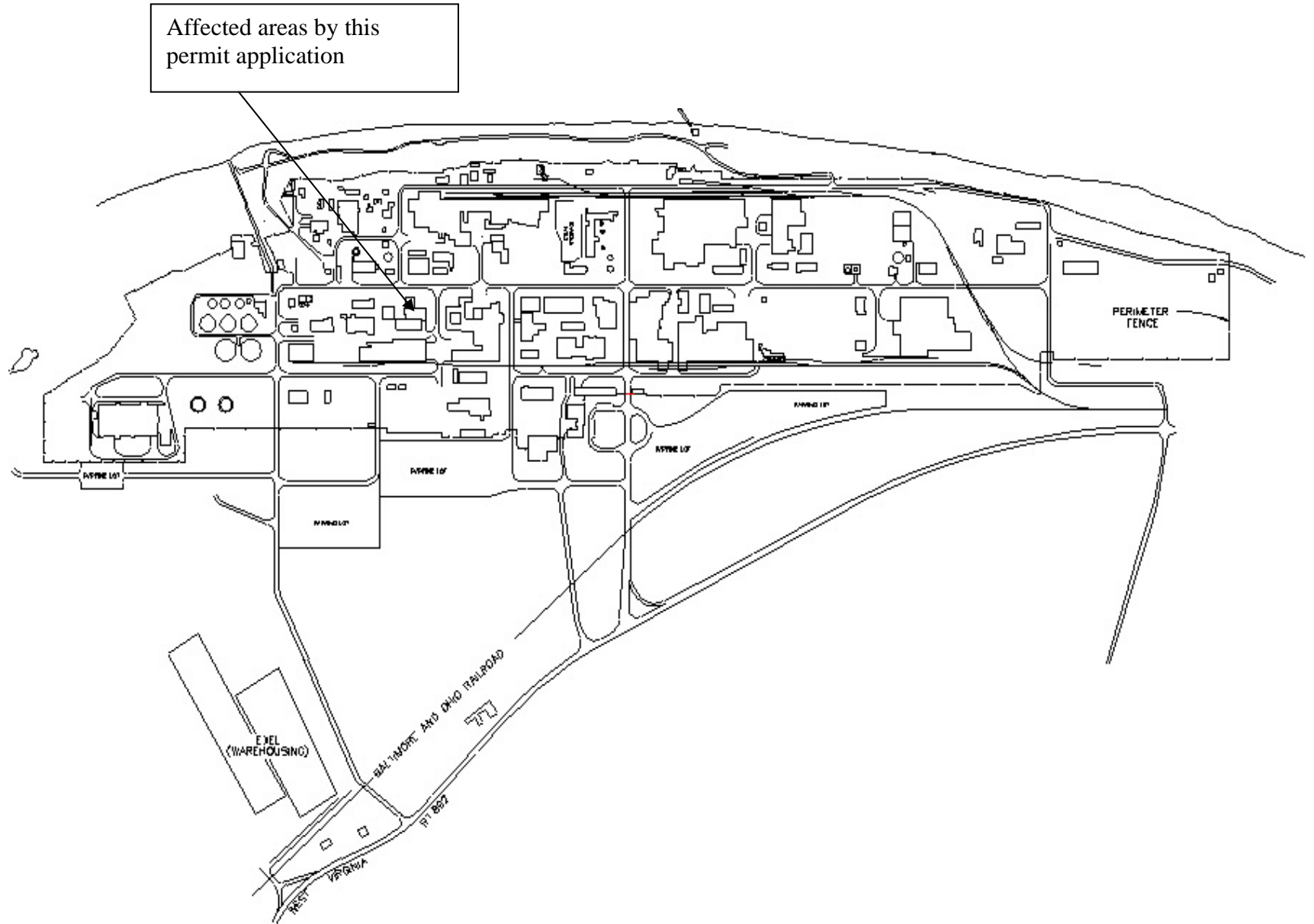
Attachment A – Area Map



From Interstate 77, take exit for Rt-95/Camden Avenue.
Proceed west until intersection with Rt-14 then turn right (north).
After about 1/4 mile turn left onto Corridor D Bypass entrance.
Follow the bypass to the exit just before the bridge.
Turn left (south) onto DuPont Rd, Rt-892.
Proceed approx. 1 mile to facility on right.

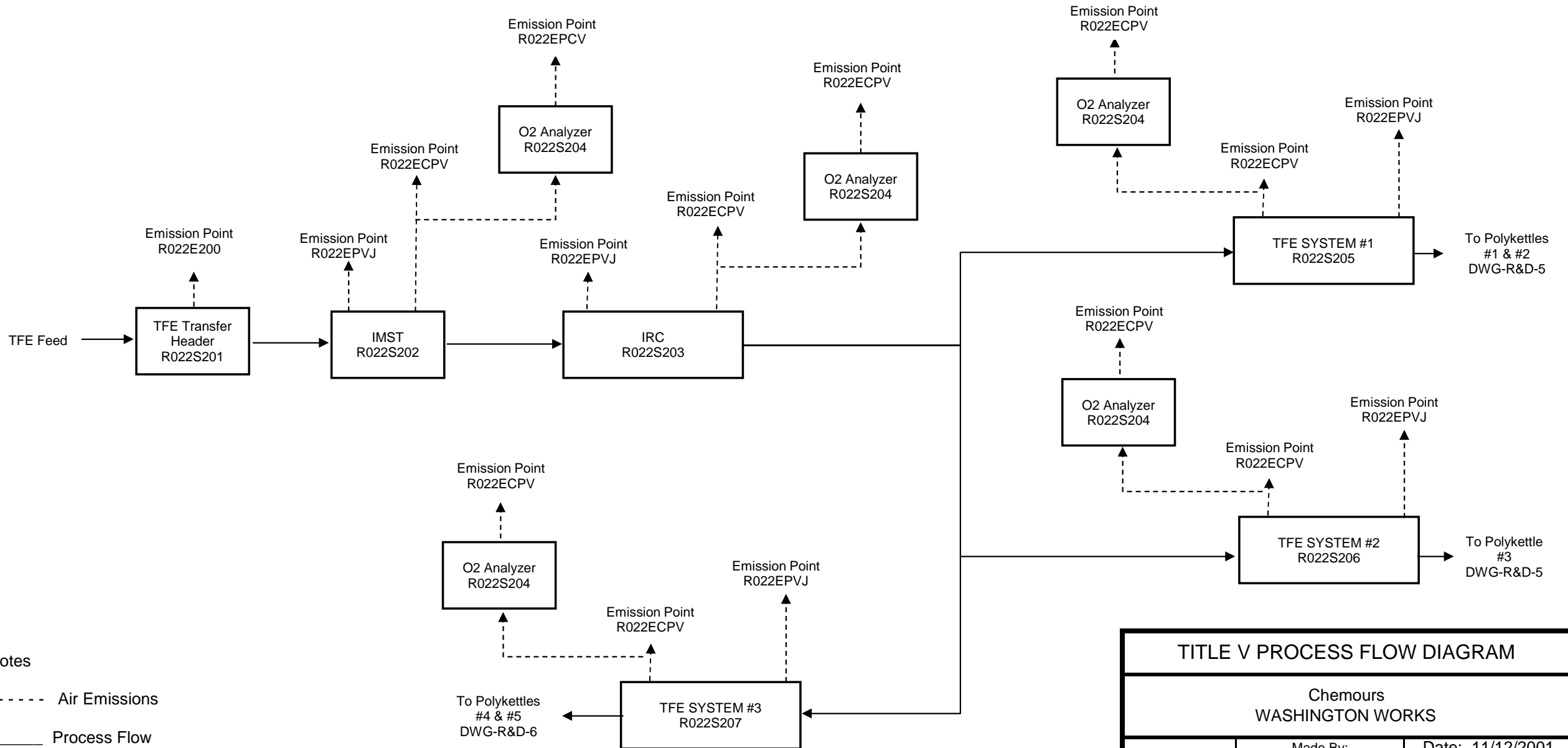
**Attachment B - Map of Facilities to Show Location
of Affected Unit**

Plant Map



Attachment C - Process Flow Diagrams

PFD-R&D-1	Semi-Works: TFE Feed system
PFD-R&D-2	Semi-Works: Aqueous Addition Feed system
PFD-R&D-3	Semi-Works: Non-Aqueous Addition Feed system
PFD-R&D-4	Semi-Works: HFP Feed System
PFD-R&D-5	Semi-Works: PolyKettles #1, #2 & #3
PFD-R&D-6	Semi-Works: PolyKettles #4 & #5
PFD-R&D-7	Semi-Works: Miscellaneous Equipment
PFD-R&D-8	Semi-Works: Parts Cleaner

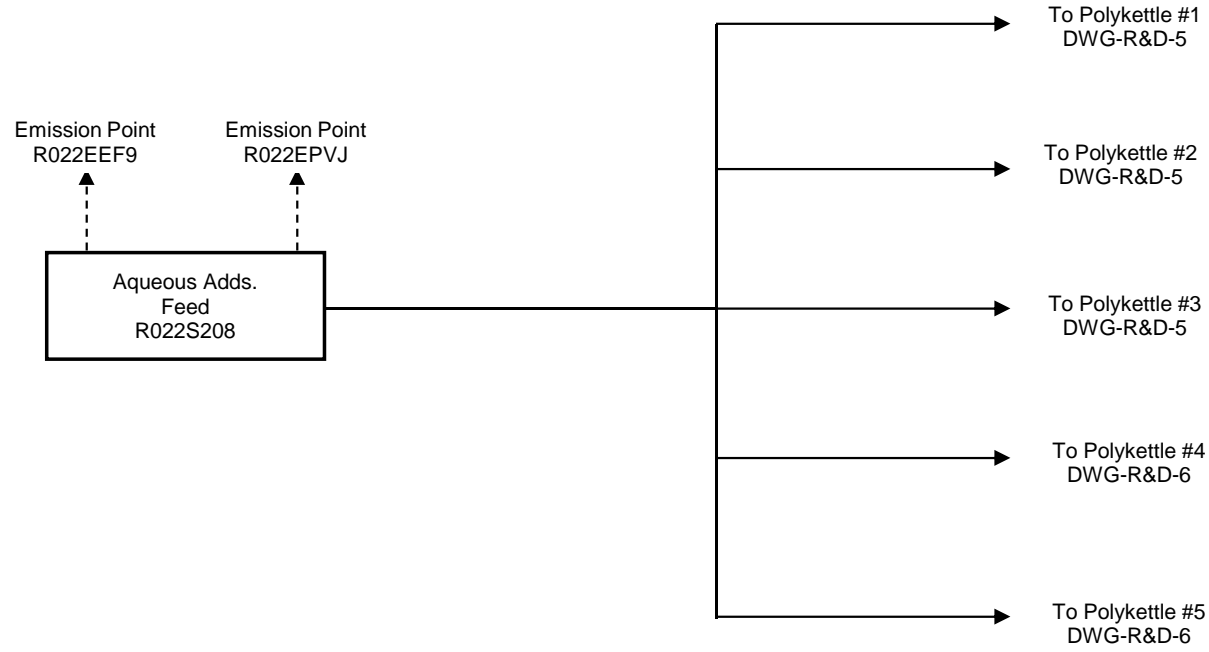


Notes

- - - - - Air Emissions
- _____ Process Flow
- * Used by Other

Sources

TITLE V PROCESS FLOW DIAGRAM		
Chemours WASHINGTON WORKS		
Scale: N/A	Made By:	Date: 11/12/2001
		Rev: 07/29/2010
R&D Semi-Works: TFE Feed system		Figure PFD-R&D-1



Notes

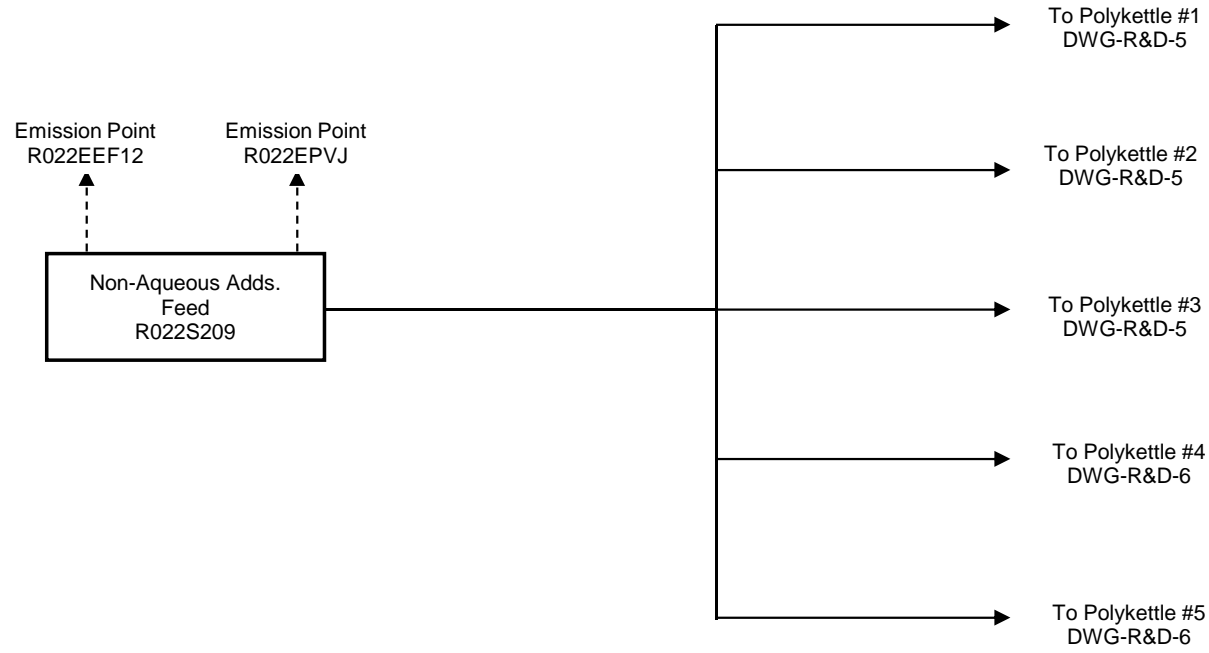
----- Air Emissions

_____ Process Flow

* Used by Other

Sources

TITLE V PROCESS FLOW DIAGRAM		
Chemours WASHINGTON WORKS		
Scale: N/A	Made By:	Date: 11/12/2001
		Rev: 07/29/2010
R&D Semi-Works: TFE Feed system		Figure PFD-R&D-2



Notes

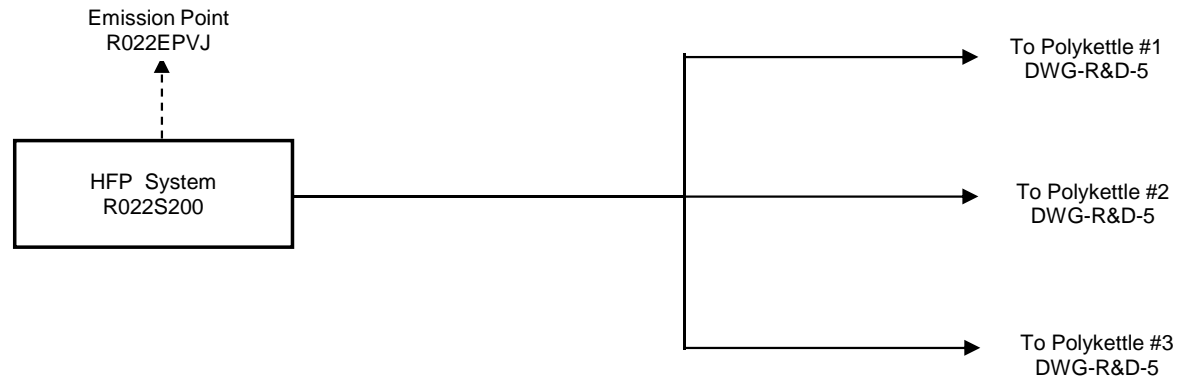
----- Air Emissions

_____ Process Flow

* Used by Other

Sources

TITLE V PROCESS FLOW DIAGRAM		
Chemours WASHINGTON WORKS		
Scale: N/A	Made By:	Date: 11/12/2001
		Rev: 07/29/2010
R&D Semi-Works: TFE Feed system		Figure PFD-R&D-3



Notes

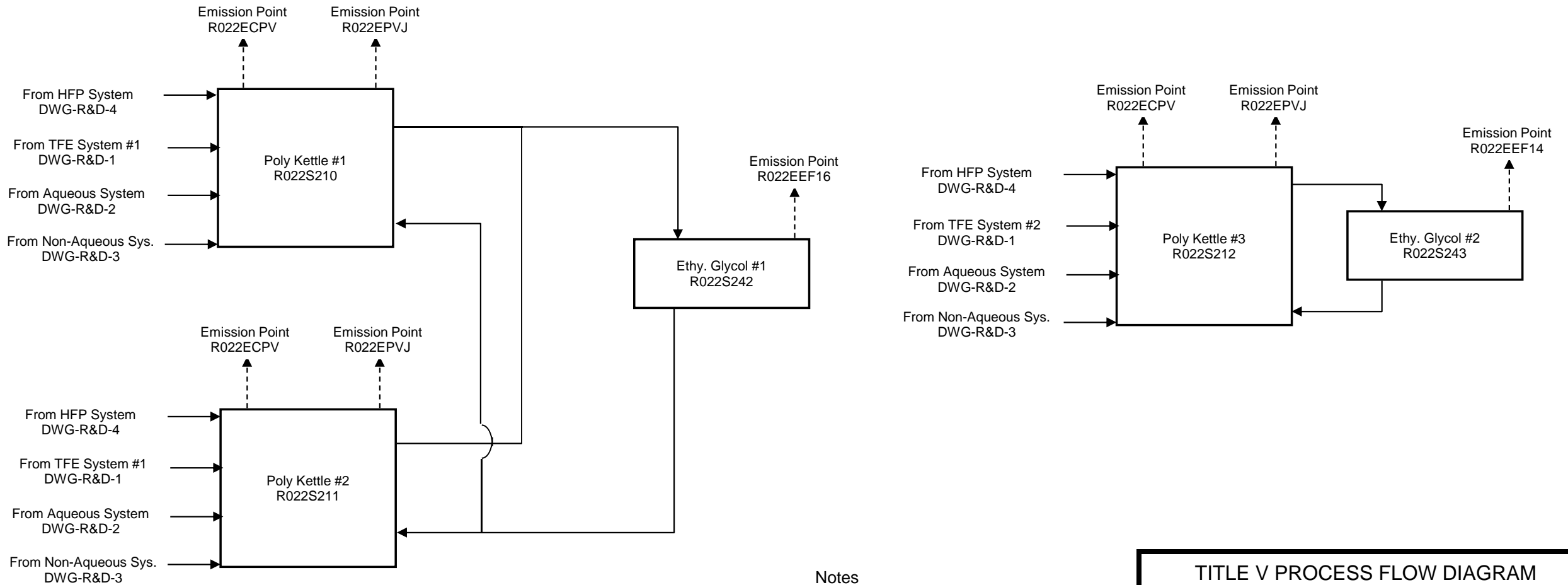
----- Air Emissions

_____ Process Flow

* Used by Other

Sources

TITLE V PROCESS FLOW DIAGRAM		
Chemours WASHINGTON WORKS		
Scale: N/A	Made By:	Date: 11/12/2001
		Rev: 07/29/2010
R&D Semi-Works: TFE Feed system		Figure PFD-R&D-4



Notes

----- Air Emissions

_____ Process Flow

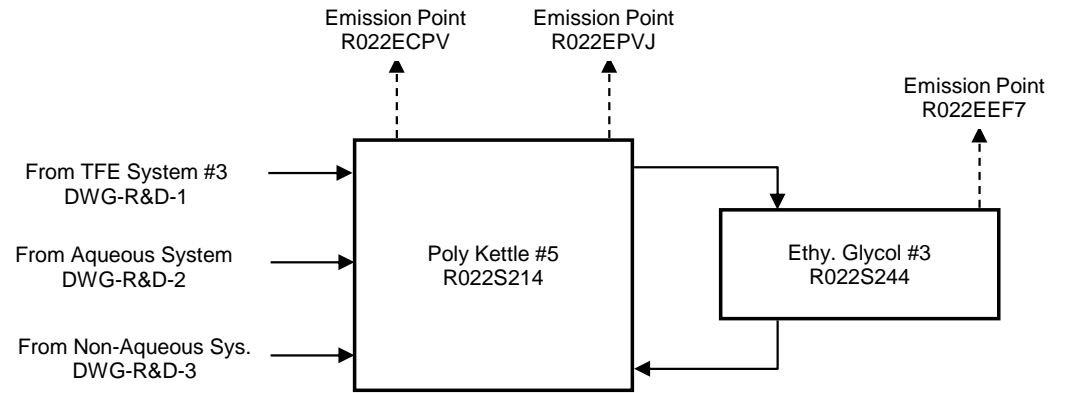
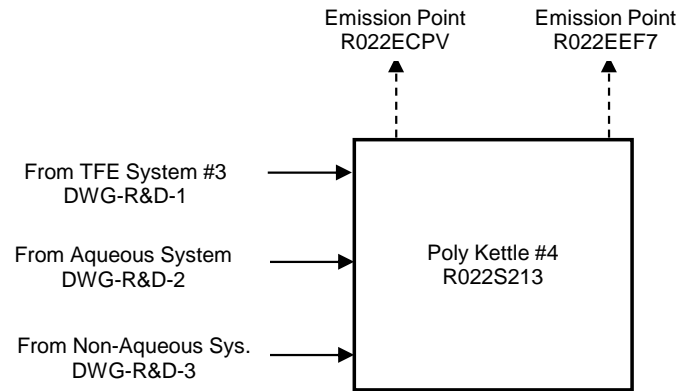
* Used by Other

Sources

TITLE V PROCESS FLOW DIAGRAM

Chemours
WASHINGTON WORKS

Scale: N/A	Made By:	Date: 11/12/2001
		Rev: 07/29/2010
R&D Semi-Works: TFE Feed system		Figure PFD-R&D-5



Notes

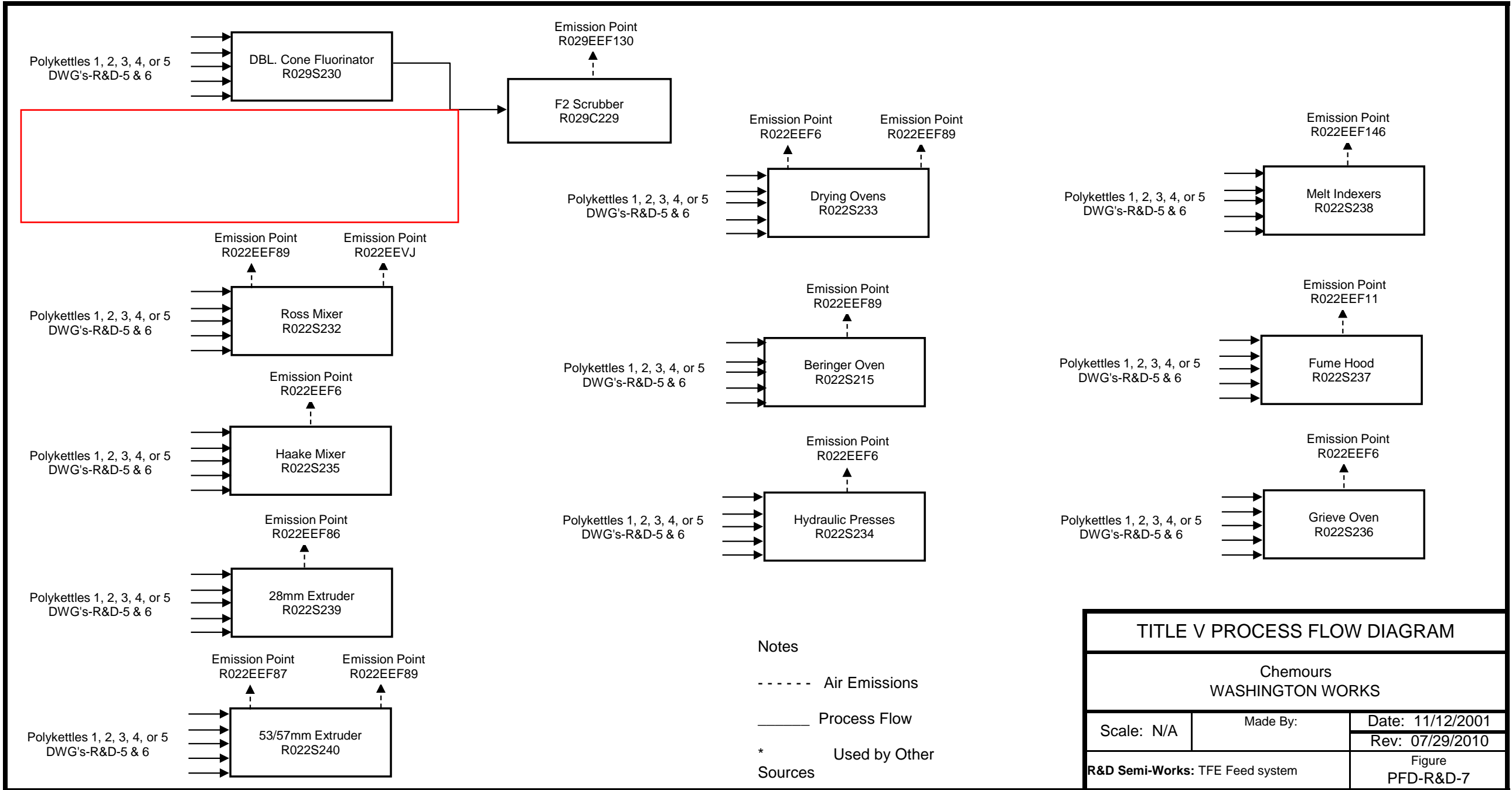
----- Air Emissions

_____ Process Flow

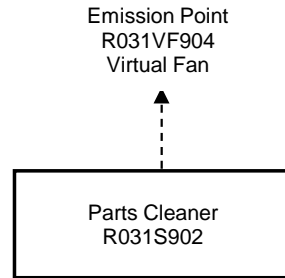
* Used by Other

Sources

TITLE V PROCESS FLOW DIAGRAM		
Chemours WASHINGTON WORKS		
Scale: N/A	Made By:	Date: 11/12/2001
		Rev: 07/29/2010
R&D Semi-Works: TFE Feed system		Figure PFD-R&D-6



TITLE V PROCESS FLOW DIAGRAM		
Chemours WASHINGTON WORKS		
Scale: N/A	Made By:	Date: 11/12/2001
		Rev: 07/29/2010
R&D Semi-Works: TFE Feed system		Figure PFD-R&D-7



Notes

----- Air Emissions

_____ Process Flow

* Used by Other

Sources

TITLE V PROCESS FLOW DIAGRAM		
Chemours WASHINGTON WORKS		
Scale: N/A	Made By:	Date: 11/12/2001
		Rev: 07/29/2010
R&D Semi-Works: TFE Feed system		Figure PFD-R&D-8

Attachment D - Equipment List Document

ATTACHMENT D - Title V 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 Point ID ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/Modified
R022EEF007	NONE	R022S213B	REACTOR #4 REACTION VENT	1 LITER	1974
R022EEF007	NONE	RO22S244	COOLANT SYSTEM #3	30 GALLONS	1985
R022EEF009	NONE	R022S208A	FP SW AQ FEEDS VENT	12 LITERS	1980-2000
R022EEF011	NONE	R022S237	FUME HOOD	4 PPH	1964
R022EEF012	NONE	R022S209A	SW NONAQ FEEDS VENT	2.5 LITERS	1980-2000
R022EEF014	NONE	R022S243	COOLANT SYSTEM #2	10 GALLONS	1996
R022EEF016	NONE	R022S242	COOLANT SYSTEM #1	8 GALLONS	1988
R022EEF085	NONE	R022S240C	FEED HOPPER	500 PPH	1976
R022EEF086	NONE	R022S239	SMALL (28MM) EXTRUDER	10 PPH	1974
R022EEF087	NONE	R022S240A	LARGE (53mm) EXTRUDER(NOT IN SERVICE SINCE 2007)	500 PPH	1976
R022EEF089	NONE	R022S215	#1 OVEN (BERRINGER/MINI J)	10.5 PPH	1992
R022EEF089	NONE	R022S232A	ROSS MIXER VENT	0.25 PPH	1985
R022EEF089	NONE	R022S233B	DRYING OVENS	0.2 PPH	1964
R022EEF089	NONE	R022S240B	LARGE WORK HOOD	500 PPH	1976
R022EEF146	NONE	R022S238	SINTER OVEN	0.57 PPH	1964
R022EEVJ	NONE	R022S232B	MIXER EVAC	30 GALLONS	1985
R022EPK1	NONE	R022S210A	REACTOR/MIXER #1 VENT	10 GALLONS	1969
R022EPK2	NONE	R022S211A	REACTOR/MIXER #2 VENT	10 GALLONS	1968
R022EPK3	NONE	R022S212A	REACTOR/MIXER #3 VENT	10 GALLONS	1994
R022EPK5	NONE	R022S214A	REACTOR MIXER #5 VENT	1 GALLONS	1985
R022EPVJ	NONE	R022S200	HFP SYSTEM EVAC	4 GALLONS	1989
R022EPVJ	NONE	R022S205B	FP SW TFE TANK #1 EVAC	14 GALLONS	2004
R022EPVJ	NONE	R022S206B	FP SW TFE TANK #2 EVAC	10 GALLONS	1994
R022EPVJ	NONE	R022S207B	FP SW TFE TANK #3 EVAC	1.2 GALLONS	1985
R022EPVJ	NONE	R022S208B	SW AQ FEEDS EVAC	12 LITERS	1980-2000

¹For 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.

ATTACHMENT D - Title V 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 Point ID ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/Modified
R031E902	NONE	R031S902	PART CLEANER	50 GALLONS	2002
22-E-215	NONE	22-S-215	MINI CLEANING OVEN	0.15 FT3	2002
22-E-109	NONE	22-S-109	RESEARCH LAB HOOD	2.830ACFM	1970
22-E-202	NONE	22-S-202	Upstairs Leased LAB HOOD (kuraray)	2.830ACFM	1970
22-E-208	NONE	22-S-208	RESEARCH LAB HOOD	2.830ACFM	1970
22-E-209	NONE	22-S-209	Control Lab hood(FTIR lab) upstairs	2.830ACFM	1970
R022EF51	NONE	R022SB05	Lab 114 HOOD	2.815 ACFM	1950
R022EF52	NONE	R022SB06	Lab 114 HOOD	2.815 ACFM	1950
R022EF63	NONE	R022SB17	LAB 108 HOOD	2.815 ACFM	1950
R022EF65	NONE	R022SB19	LAB 101 (CONTROL LAB) WEST HOOD	2.815 ACFM	1950
R022EF66	NONE	R022SB20	LAB 101 (CONTROL LAB) EAST HOOD	2.815 ACFM	1950
R022EF115	NONE	R022SB36	LAB 210 (CONTROL LAB) DISPERSION HOOD	2.815 ACFM	1985
R022EF117	NONE	R022SB38	HOOD	1.500ACFM	1985
R022EF118	NONE	R022S040	HOOD	2.815 ACFM	1985
R022EF132	NONE	R022S047	LOCAL VENT	12.000 ACFM	1985
R022ECPV	NONE	R022S204	FP SW 02 ANALYZER	4.5 SCFM	1978
R022ECPV	NONE	R022S205	FP SW TFE TANK #1 VENT	14 GALLONS	2004
R022ECPV	NONE	R022S206	FP SW TFE TANK #2 VENT	10 GALLONS	1994
R022ECPV	NONE	R022S207A	FP SW TFE TANK #3 VENT	1.2 GALLONS	1985
R022ECPV	NONE	R022S213A	Mothballed/out of service REACTOR #4 MIXED FEED VENT	1 LITRE	1974
R022ECPV	NONE	R022S247	MONOMER TRANSFER LINE	4 GALLONS	2002
R022EEF006	NONE	R022S233A	DRYING OVENS	3.5 PPH	1965-1995
R022EEF006	NONE	R022S234	HYDRAULIC PRESSES HOOD	0.35 PPH	1964-1992
R022EEF006	NONE	R022S235	HAAKE MIXER (SW east)	0.5 PPH	1996
R022EEF006	NONE	R022S236	#2 OVEN (GRIEVE)	0.05 PPH	1973

¹For 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.

ATTACHMENT D - Title V 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 Point ID ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/Modified
R022EPVJ	NONE	R022S209B	SW NONAQ FEEDS EVAC	2.5 LITERS	1980-2000
R022EPCJ	NONE	R022S210B	REACTOR/MIXER #1 EVAC VENT	10 GALLONS	1969
R022EPVJ	NONE	R022S211B	REACTOR/MIXER #2 EVAC VENT	10 GALLONS	1968
R022EPVJ	NONE	R022S212B	REACTOR/MIXER #3 EVAC VENT	10 GALLONS	1994
R022EPVJ	NONE	R022S214B	REACTOR/MIXER #5 EVAC VENT	1 GALLON	1985
R029EEF130	R029C229	R029S230	DOUBLE CONE FLUORINATOR	24 PPH	1985
R029EEF130	R029C229	R029S231	D&R'ed. No longer in service VIBRATING BED FLUORINATOR	NO LONGER IN Semiworks	1987
R031E903	INTEGRAL CYCLONE	R031S903	BEAD BLAST UNIT (SAND BLASTER)	900 ACFM	1993

¹For 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.

Attachment E - Equipment Sheet for Facilities

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: 22-S-109	Emission unit name: LAB 109 HOOD	List any control devices associated with this emission unit: NONE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): EXHAUST HOOD IN LAB 109(EF-117) EP ID: 22-E-109			
Manufacturer: BUFFALO FORGE	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1968	Installation date: (MM/DD/YYYY) / / 1970	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2830 ACFM			
Maximum Hourly Throughput: 12990 PPH	Maximum Annual Throughput: 56896 TONS/YR	Maximum Operating Schedule: 8760HRS/YR	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___ Direct Fired	
Maximum design heat input and/or maximum horsepower rating: NA		Type and Btu/hr rating of burners: NA	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. NONE			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.0013	0.0055
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

ENGINEERING ESTIMATES

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.
THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.
MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH
ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: 22-S-202	Emission unit name: Lab 202 Hood	List any control devices associated with this emission unit: NA	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Exhaust Hood in lab 202 (EF-71) EP ID: 22-E-202 Location: upstairs Building 22 leased lab			
Manufacturer: Buffalo Forge	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1968	Installation date: (MM/DD/YYYY) / / 1970	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2830 ACFM			
Maximum Hourly Throughput: 12,990 PPH	Maximum Annual Throughput: 56,896 TON/YR	Maximum Operating Schedule: 8760 HR/YR	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.0013	0.0055
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).		
Engineering Estimate		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.
The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.
Pounds of production or laboratory methods ran, will be recorded each month.
Monthly maintenance records will be kept.
All records of associated records with above will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: 22-S-208	Emission unit name: LAB 208 HOOD	List any control devices associated with this emission unit: NONE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): LAB 208 EXHAUST HOOD EP ID 22-E-208; EF118 LOCATION: TELOMERS GC LAB			
Manufacturer: BUFFALO FORGE	Model number:	Serial number:	
Construction date: (MM/DD/YYYY) / / 1968	Installation date: (MM/DD/YYYY) / / 1970	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2830ACFM			
Maximum Hourly Throughput: 12,990 PPH	Maximum Annual Throughput: 56,896 TON/YR	Maximum Operating Schedule: 8760 HR/YR	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating: NA		Type and Btu/hr rating of burners: NA	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. NA			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.000001	0.0000044
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
METHYLENE CHLORIDE	0.0013	0.0055
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

ENGINEERING ESTIMATE

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE POUNDS OF PRODUCTION, OR APPLICABLE LABORATORY TESTS RUN, WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH.

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: 22-S-209	Emission unit name: Lab Hood	List any control devices associated with this emission unit: NA	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Exhaust hood in lab 209 (EF-113) EF ID: 22-E-209 Location: Control Lab-FTIR Lab			
Manufacturer: Buffalo Forge	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1968	Installation date: (MM/DD/YYYY) / / 1970	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2830 ACFM			
Maximum Hourly Throughput: 12,990 pph	Maximum Annual Throughput: 56,896 ton/yr	Maximum Operating Schedule: 8760 hr/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.0013	0.0055
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).		
Engineering Estimate		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emissions check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The number of Laboratory Tests run or the Pounds of production will be recorded each month.

Maintenance records will be monitored and recorded each month

All records will be kept for five years.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-047	Emission unit name: PPL Area hoods	List any control devices associated with this emission unit: 22-C-001	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Molding room hoods EP ID R022EF132; AREA HAS BEEN D&R'd			
Manufacturer: BUFFALO FORGE	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1985	Installation date: (MM/DD/YYYY) / / 1985	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 12000ACFM			
Maximum Hourly Throughput: 50,400	Maximum Annual Throughput: 220720 TONS/YR	Maximum Operating Schedule: 8760 HR/YR	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating: NA		Type and Btu/hr rating of burners: NA	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. NA			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Formaldehyde was part of the 45 CSR 27 compliance plan when the site was solely under the control of DuPont. Chemours no longer generates, or has, sufficient Formaldehyde emissions to trigger 45 CSR 27 when excluding the emissions from the Waste Water treatment plant which must be operated to support HON MACT disposal of the formaldehyde generated by DuPont.. Chemours wishes to entertain the elimination of the 45 CSR 27 applicability for formaldehyde from the Chemours Site Permits.

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE NUMBER OF THE UNITS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-200	Emission unit name: HFP System Evacuation Vent	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): HFP System Evacuation Vent. EP ID R022EPVJ Location Cell #1			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1989	Installation date: (MM/DD/YYYY) / / 1989	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch process- 4 gallons			
Maximum Hourly Throughput: 1 hr/batch	Maximum Annual Throughput: 4 batches	Maximum Operating Schedule: 4 hr/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	47.4	0.092
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Toluene	1.5E-4	2.9E-7
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Ozone Depleting Chemical	0.031	6.2E-5
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A. Method 22,.

The number of Laboratory tests or the units or Pounds of production will be recorded each month.

Maintenance records will be monitored and recorded each month.

All records will be kept for five years.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-204	Emission unit name: Oxygen analyzer	List any control devices associated with this emission unit: none	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Oxygen analyzer EP ID: R022ECPV			
Manufacturer: Teledyne	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1978	Installation date: (MM/DD/YYYY) / / 1978	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 4.5 scfm			
Maximum Hourly Throughput: 1.354 pph	Maximum Annual Throughput: 5.9 TONS/YR	Maximum Operating Schedule: 8760 HR/YR	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	1.354	5.9
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrochloric acid	0.00005	0.00022
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Engineering estimate

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appending A, Method 22.

The number of Laboratory tests or the units or Pounds of production will be recorded each month.

Maintenance records will be monitored and recorded each month.

All records will be kept for five years.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-205B	Emission unit name: Tank #1 Evacuation vent	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): FP SW TFE Tank #1 Evacuation Vent. EP ID: R022EPVJ. Location: Cell #1			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 2004	Installation date: (MM/DD/YYYY) / / 2004	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch process- 14 gallons			
Maximum Hourly Throughput: 0.17 hr/batch	Maximum Annual Throughput: 12 batches	Maximum Operating Schedule: 2 hr/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	3.5	0.0035
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrogen Chloride	1.3E-4	1.3E-7
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Ozone Depleting Chemical	0.013	1.3E-5
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

Units counts fr Laboratory tests or Pounds of production will be recorded each month.

Maintenance records will be monitored and recorded each month.

All records will be kept for five years.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: R022S-206A	Emission unit name: Tank #2 vent	List any control devices associated with this emission unit: none	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): FP SW TFE Tank #2 Vent EP ID: R022ECPV Location Cell 3 (SW)			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1994	Installation date: (MM/DD/YYYY) / / 1994	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch Process-10 gallons			
Maximum Hourly Throughput: 1 hr/batch	Maximum Annual Throughput: 12 batches	Maximum Operating Schedule: 12 batches/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	106.4	0.638
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrochloric Acid	0.004	0.000024
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering Estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

Unit numbers of laboratory tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-206B	Emission unit name: Tank #2 Evacuation Vent	List any control devices associated with this emission unit: none	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): FP SW TFE Tank #2 Evacuation Vent EP ID: R022EPVJ Location: Cell 3(SW)			
Manufacturer: Custom made by Dupont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 2004	Installation date: (MM/DD/YYYY) / / 2004	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch Process- 10 gallon			
Maximum Hourly Throughput: 0.17 hr.batch	Maximum Annual Throughput: 12 batches	Maximum Operating Schedule: 2 hr/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	2.6	0.0026
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrogen Chloride	9.6E-5	9.5E-8
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Engineering Estimate

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The Unit count of Laboratory tests of the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-207A	Emission unit name: Tank #3 Vent	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): FP SW TFE Tank #3 Vent EP ID: R022ECPV Location: Cell #5			
Manufacturer: Custom Made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1985	Installation date: (MM/DD/YYYY) / / 1985	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch process -1.2 gallons			
Maximum Hourly Throughput: 1 hr/batch	Maximum Annual Throughput: 12 batches	Maximum Operating Schedule: 12 Batches/year	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	12	0.072
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrogen Chloride	0.00045	0.0000027
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Engineering Estimate

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-207B	Emission unit name: Tank#3 Evacuation Vent	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): FP SW TFE Tank #3 Evacuation Vent EP ID: R022EPVJ Location: cell 5			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1985	Installation date: (MM/DD/YYYY) / / 1985	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch Process- 1.2 Gallons			
Maximum Hourly Throughput: 0.17 hr/batch	Maximum Annual Throughput: 12 batches	Maximum Operating Schedule: 2 hr/ yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.29	2.9E-4
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrogen Chloride	1.1E-5	1.1E-8
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
ozone depleting chemical	1.1E-3	1.1E-6
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).		
Engineering estimate		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years records will be kept for five years.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-208A	Emission unit name: Aqueous Feed Vent	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): FP SW Aqueous Feed, EP ID: R022EEF009			
Manufacturer: Gilson	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1980-2000	Installation date: (MM/DD/YYYY) / / 1980-2000	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch process - 12 liters			
Maximum Hourly Throughput: 1 hr/batch	Maximum Annual Throughput: 3500 batches	Maximum Operating Schedule: 3500 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	5.4E-3	2.7E-3
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	1.6E-3	1.4E-3
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-208B	Emission unit name: Aqueous Feed Evacuation Vent	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): SW Aqueous Feed Vent, EP ID: R022EPVJ			
Manufacturer: Gilson	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1980	Installation date: (MM/DD/YYYY) / / 1980	Modification date(s): (MM/DD/YYYY) / / 2000 ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch Process - 12 liters			
Maximum Hourly Throughput: 1hr/batch	Maximum Annual Throughput: 3500 batches	Maximum Operating Schedule: 3500 hr/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	6.2E-3	4.3E-3
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	3.1E-3	2.2E-3
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-209A	Emission unit name: Feed Vent	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): SW Nonqueous Feed Vent EP ID: R022EEF012			
Manufacturer: Gilson	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1980	Installation date: (MM/DD/YYYY) / / 1980	Modification date(s): (MM/DD/YYYY) / / 2000 ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch Process 2.5 Liters			
Maximum Hourly Throughput: 1 hr/batch	Maximum Annual Throughput: 3500 Batches	Maximum Operating Schedule: 3500 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-209B	Emission unit name: Non Aqueous Feed Vent	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): SW Non- aqueous Feed Vent EP ID: R022EPVJ			
Manufacturer: Gilson	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1980	Installation date: (MM/DD/YYYY) / / 1980	Modification date(s): (MM/DD/YYYY) / / 2000 ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch Process 2.5 Liters			
Maximum Hourly Throughput: 1 hr/batch	Maximum Annual Throughput: 3500 batches	Maximum Operating Schedule: 3500hr/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.13	0.107
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrogen Chloride	2.0E-6	1.7E-6
Maleic Anhydride, Methyl Methacrylate	0.055	0.035
Trichloroethylene	0.074	0.047
Vinyl Acetate	0.048	0.031
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
ozone depleting chemicals	2.6E-4	2.2 E-4
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering Estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-210A	Emission unit name: PK1 Reactor Mixer Vent	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): PK1 Reactor/Mixer#1 Vent EP ID:R022EPK1 Location: cell 1			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1969	Installation date: (MM/DD/YYYY) / / 1969	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1 hr./batch--10 gallons Idled awaiting business need since 2016			
Maximum Hourly Throughput: 1 batch/ hr.	Maximum Annual Throughput: 700hrs/yr.	Maximum Operating Schedule: 700hr/yr.	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	7.8	4.72
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Toluene	3.8E-5	1.3E-5
Methanol	0.25	0.088
Acetonitrile	8.0E-5	2.8E-5
Maleic Anhydride, Methyl methacrylate, vinyl acetate, trichloroethylene	0.3	0.68
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
ozone depleting chemical	0.54	0.19
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering Estimates</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit with the condition number**. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See attachment list for all applicable requirements

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: R022S-210B	Emission unit name: PK#1 REACTOR/MIXER EVACUATION	List any control devices associated with this emission unit: NONE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): PK#1 REACTOR/MIXER EVACUATION VENT EP ID: R022EPCJ Location: cell 1			
Manufacturer: DUPONT	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1969	Installation date: (MM/DD/YYYY) / / 1969	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): BATCH PROCESS - 10 GALLON IDLED AWAITING BUSINESS NEED SINCE 2016			
Maximum Hourly Throughput: 1HR/BATCH	Maximum Annual Throughput: 700 BATCHES	Maximum Operating Schedule: 700HRS/YR	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating: NA		Type and Btu/hr rating of burners: NA	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. NA			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.67	0.235
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
MALEIC ANHYDRIDE, METHYL METHACRYLATE, VINYL ACETATE, TRICHLOROETHYLENE	8.4E-3	2.1E-2
TOLUENE	6.1E-7	2.2E-7
ACETONITRILE	1.3E-7	4.5E-8
METHANOL	4.0E-4	1.4E-4
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
OZONE DEPLETING CHEMICALS	3.1E-3	1.1E-3
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>ENGINEERING ESTIMATE</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: R022S-211A	Emission unit name: PK2 Reactor/mixer Vent	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): PK2 Reactor/Mixer #2 Vent, EP ID: R022EPK2 Location Cell 1			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1969	Installation date: (MM/DD/YYYY) / / 1969	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1 hr/batch- 10 gallon			
Maximum Hourly Throughput: 1 batch/hr	Maximum Annual Throughput: 700 hrs/yr, 700 batches/ yr	Maximum Operating Schedule: 700 hr/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	7.8	4.72
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Toluene	3.8E-5	1.3E-5
Methanol	0.25	0.088
Acetonitrile	8.0E-5	2.8E-5
Maleic anhydride, Methyl methacrylate, vinyl acetate, trichloroethylene	0.3 each	0.68 each
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
ozone depleting chemical	0.54	0.19
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: R022S-211B	Emission unit name: PK2 Reactor/mixer Evac Vent	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): PK2 Reactor/Mixer #2 Evacuation Vent, EP ID: R022EPVJ Location: SW			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1988	Installation date: (MM/DD/YYYY) / / 1988	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1 hr/batch- 10 gallon			
Maximum Hourly Throughput: 1 batch/hr	Maximum Annual Throughput: 700 hrs/yr, 700 batches/yr	Maximum Operating Schedule: 700 hr/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.67	0.235
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Toluene	6.1E-7	2.2E-7
Methanol	4.0E-4	1.4E-4
Acetonitrile	1.3E-7	4.5E-8
Maleic anhydride, Methyl methacrylate, Vinyl acetate, trichloroethylene	8.4E-3 each	2.1E-2 each
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Ozone Depleting Chemical	0.0031	0.0011
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: R022S-212A	Emission unit name: PK3 Reactor/Mixer Vent	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): PK3 Reactor/Mixer #3 Vent. EP ID:R022EPK3 Location: SW Cell #3.			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1969	Installation date: (MM/DD/YYYY) / / 1969	Modification date(s): (MM/DD/YYYY) 11 / 01 / 2021 ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1 hr/batch- 10 gallons			
Maximum Hourly Throughput: 1 batch/hr	Maximum Annual Throughput: 700 hrs/yr 700 batches/yr	Maximum Operating Schedule: 700 hr/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	7.8	4.72
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Toluene	3.8E-5	1.3E-5
Methanol	0.25	0.088
Acetonitrile	8.0E-5	2.8E-5
Maleic anhydride, Methyl methacrylate, Vinyl acetate, Trichlorethylene	0.3 each	0.68 each
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Ozone Depleting Chemical	0.54	0.19
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: R022S-212B	Emission unit name: PK 3 Reactor/Mixer Evacuation Vent	List any control devices associated with this emission unit: none	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): PK3 Reactor/Mixer #3 Evacuation Vent. EP ID:R022EPVJ Location Cell #3			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1988	Installation date: (MM/DD/YYYY) / / 1988	Modification date(s): (MM/DD/YYYY) 11 / 01 / 2021 ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1 hr/batch			
Maximum Hourly Throughput: 1 batch/hr	Maximum Annual Throughput: 700 hrs/yr 700 batches/yr	Maximum Operating Schedule: 700 hr/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.67	0.235
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Toluene	6.1E-7	2.2E-7
Methanol	4.0E-4	1.4E-4
Acetonitrile	1.3E-7	4.5E-8
Maleic anhydride, Methyl methacrylate, Vinyl acetate, Trichloroethylene	8.4E-3 each	2.1E-2 each
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Ozone Depleting Chemical	0.0031	0.0011
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-213A	Emission unit name: PK4 REACTOR VENT	List any control devices associated with this emission unit: NONE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): PK4 REACTOR/MIXED FEED TANK EP ID: R022ECPV			
Manufacturer: DUPONT	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1974	Installation date: (MM/DD/YYYY) / / 1974	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): BATCH PROCESS - 1 LITER IDLED AWAITING BUSINESS NEED SNCE 2007			
Maximum Hourly Throughput: 2HR/BATCH	Maximum Annual Throughput: 1400 BATCHES WHEN IN SERVICE	Maximum Operating Schedule: 1400 BATCHES/YEAR	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating: NA		Type and Btu/hr rating of burners: NA	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. NA			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-213B	Emission unit name: PK#4 Reactor #4 Vent	List any control devices associated with this emission unit: none	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): PK #4 Reactor Vent EP ID: R022EEF007 Location Cell 8			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1974	Installation date: (MM/DD/YYYY) / / 1974	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch Process-1 Liter Idled awaiting Business need since 2007			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	2.3	0.79
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrogen Chloride	0.00008	0.00003
Acetonitrile	0.00008	0.000023
Methanol	0.1	0.035
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
ozone depleting chemical	0.31	0.022
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).		
Engineering Estimate		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-214A	Emission unit name: PK5 Reactor Mixer #5 Vent	List any control devices associated with this emission unit: none	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): PK5 Reactor/Mixer #5 Vent EP ID: R022EPK5 Location Cell 7 (SW)			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1985	Installation date: (MM/DD/YYYY) / / 1985	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1 HR/Batch- 1 Gallon			
Maximum Hourly Throughput: 1 HR Batch	Maximum Annual Throughput: 700 hrs/yr 700 batches/yr	Maximum Operating Schedule: 700 hr/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	1.25	0.472
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Toluene	3.8E-6	1.4E-6
Methanol	0.25	0.088
Acetonitrile	5.3E-5	1.9E-5
Maleic anhydride, methyl methacrylate, vinyl acetate, trichloroethylene	0.2	0.069
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
ozone depleting zone	0.053	0.019
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering Estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: R022S-214B	Emission unit name: PK5 Reactor/Mixer #5 Evacuation Vent	List any control devices associated with this emission unit: none	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): PK5 Reactor/Mixer #5 Evacuation Vent EP ID: R022EPVJ Location: Cell 7			
Manufacturer: Custom Made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1988	Installation date: (MM/DD/YYYY) / / 1988	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1 hr/batch - 1 gallon			
Maximum Hourly Throughput: 1 batch/hr	Maximum Annual Throughput: 700 hrs/yr 700 batches/yr	Maximum Operating Schedule: 700 hr/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	0.066	0023
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Toluene	6.1E-8	2.2E-8
Methanol	4.0E-5	1.4E-5
Acetonitrile	8.5E-8	3.0E-8
Maleic anhydride , methyl methacrylate, vinyl acetate, trichloroethylene	3.2E-3	1.9E-3
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
ozone depleting zone	3.1E-4	1.1E-4
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering Estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: R022S-215	Emission unit name: Oven	List any control devices associated with this emission unit: none
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Berringer Oven EP ID: R022EEF089 Location: West SW

Manufacturer: Berringer	Model number: Mini J	Serial number: MJ530
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Construction date: (MM/DD/YYYY) 1992 / /	Installation date: (MM/DD/YYYY) 1992 / /	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /
--	--	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

2hr/batch This oven is used as needed through the year

Maximum Hourly Throughput: 2hr/batch	Maximum Annual Throughput: 208 batches/yr	Maximum Operating Schedule: 208 batches/yr
--	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___Direct Fired
--	---

Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.028	0.0015
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	6.6E-4	7.0E-5
Total Particulate Matter (TSP)	6.6E-4	7.0E-5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.063	0.0033
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
HYDROGEN FLUORIDE	0.016	0.0008
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

ENGINEERING ESTIMATE

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-232A	Emission unit name: Ross Mixer	List any control devices associated with this emission unit: none	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Ross Mixer West Semi-Works AKA SAP Unit.(Solvent Aided Pelletization) EP ID: R022EEF089			
Manufacturer: Ross	Model number: NA	Serial number: 5166	
Construction date: (MM/DD/YYYY) / / 1985	Installation date: (MM/DD/YYYY) / / 1985	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 15 minute/batch Used as needed to meet business need			
Maximum Hourly Throughput: 4 batches/hr	Maximum Annual Throughput: 62.5 hr/yr	Maximum Operating Schedule: 62.5 hr/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.66	0.087
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: R022S-232B	Emission unit name: Ross Mixer Vent	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Ross (SAP) Mixer Evacuation Vent: West Semi-Works: EP ID: R022EEVJ			
Manufacturer: Ross	Model number: NA	Serial number: 5166	
Construction date: (MM/DD/YYYY) / / 1985	Installation date: (MM/DD/YYYY) / / 1985	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 0.25 hrs/batch - Used as needed during the year to meet business need			
Maximum Hourly Throughput: 4 batch/hr	Maximum Annual Throughput: 62.5 hrs/yr 250 batches/yr	Maximum Operating Schedule: 62.5hr/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.66	0.082
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Engineering Estimate

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-233A	Emission unit name: DRYING OVEN	List any control devices associated with this emission unit: NONE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): GRIEVE DRYING OVEN EP ID R022EEF006; LOCATION: EAST SW			
Manufacturer: GRIEVE	Model number: HA850	Serial number: 470042	
Construction date: (MM/DD/YYYY) / / 1985	Installation date: (MM/DD/YYYY) / / 1985	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): BATCH PROCESS			
Maximum Hourly Throughput: 72HR	Maximum Annual Throughput: 122 BATCHES	Maximum Operating Schedule: 8760 HR/YR	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating: NA		Type and Btu/hr rating of burners: NA	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. NA			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	0.0084	0.006
Total Particulate Matter (TSP)	0.0084	0.006
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

ENGINEERING ESTIMATE

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-233B	Emission unit name: Oven	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Hotpack Drying Oven EP ID: R022EEF089 location: West Semi-Works			
Manufacturer: Hotpack	Model number: 212570-14	Serial number: na	
Construction date: (MM/DD/YYYY) / / 1964	Installation date: (MM/DD/YYYY) / / 1964	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 72 hrs/batch			
Maximum Hourly Throughput: 0.13 batches/hr	Maximum Annual Throughput: 122 batches/yr	Maximum Operating Schedule: 8760 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	0.000042	0.0003
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Engineering estimate.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-234	Emission unit name: Hydraulic Press	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Hydraulic Press Exhaust Hood EP ID: R022EEF006 Location: East Semi-Works			
Manufacturer: #4 PHI #5 PHI #6 PHI #7 PHI	Model number: P210G-X4B-21, SP2100-X4A-21, P2100	Serial number: 92-9-003, 91-1015, 14-3-001, 14-3-002	
Construction date: (MM/DD/YYYY) 1964-2020 / /	Installation date: (MM/DD/YYYY) / / 1964-2020	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch Process 0.35pph			
Maximum Hourly Throughput: 1.7hr/batch	Maximum Annual Throughput: 2500 batches	Maximum Operating Schedule: 4167 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	1.5E-5	0.0012
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	3.75E-05	3.9E-05
Total Particulate Matter (TSP)	0.0084	0.006
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.0016	0.0017
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrogen Chloride	0.0002	0.00021
Hydrogen Fluoride	0.0004	0.00042
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
TiCl ₄	4.4E-09	4.6E-09
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).		
Engineering Estimate.		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-235	Emission unit name: Haake Mixer	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Haake Mixer EP ID: R022EEF006 Location: Semiworks East			
Manufacturer: haake	Model number: RC300P	Serial number: 1200000419/003	
Construction date: (MM/DD/YYYY) / / 1996	Installation date: (MM/DD/YYYY) / / 1996	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch Process			
Maximum Hourly Throughput: 6 hr/batch	Maximum Annual Throughput: 1000 batches	Maximum Operating Schedule: 6000 hrs/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	2.3E-5	1.2E-5
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	5.6E-5	2.8E-5
Total Particulate Matter (TSP)	0.0084	0.006
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	0.0016	0.0017
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrochloric Acid	0.0003	0.00015
Hydrofluoric Acid	0.0006	0.0003
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
TiCl ₄	6.6E-9	3.3E-9
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering Estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-236	Emission unit name: Oven	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Grieve Oven, EP ID: R022EEF006			
Manufacturer: Custom made	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1973	Installation date: (MM/DD/YYYY) / / 1973	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch process - 0.05 pph			
Maximum Hourly Throughput: 1 hr/batch	Maximum Annual Throughput: 250 batches	Maximum Operating Schedule: 250 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	2.6E-7	2.6E-7
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	6.2E-7	6.5E-7
Total Particulate Matter (TSP)	6.2E-7	6.5E-7
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	2.6E-5	2.6E-5
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrochloric acid	3.3E-6	3.3E-6
Hydrofluoric acid	6.6E-6	6.5E-6
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
TiCl ₄	7.3E-11	7.5E-11
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month.

The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22.

The unit count of Laboratory Tests or the Pounds of production will be recorded each month.

Monthly maintenance records will be kept.

All records of checks will be kept for five years

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-237	Emission unit name: Fume Hood (solutions)	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Fume Hood, EP ID: R022EEF011 Location: SW east			
Manufacturer: GE	Model number: SK182H6268	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1964	Installation date: (MM/DD/YYYY) / / 1964	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch process			
Maximum Hourly Throughput: 4 hr/batch	Maximum Annual Throughput: 700 batches	Maximum Operating Schedule: 175 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	2.1	0.79
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methanol	0.01	0.0035
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
ozone depleting chemical	2.1	0.17
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-238	Emission unit name: Sinter Oven	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Exhaust Hood Sinter Oven EP ID: R022EEF146 Location: East Semi-Works			
Manufacturer: BUFLO-FG	Model number: 365BL1	Serial number: S129710000001	
Construction date: (MM/DD/YYYY) / / 1964	Installation date: (MM/DD/YYYY) / / 1964	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 0.5 hr/batch Sintering oven only			
Maximum Hourly Throughput: 0.5 batch/hr	Maximum Annual Throughput: 7500 hrs/yr 15,000 batches/yr	Maximum Operating Schedule: 7500hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	2.6E-5	7.0E-6
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	6.4E-5	1.8E5
Total Particulate Matter (TSP)	6.4E-5	1.8E5
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.027	0.00073
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
ODC	7.5E9	2.1E-9
Hydrogen Fluoride	6.8E-4	1.9E-4
Hydrogen Chloride	3.4E-4	9.4E-5
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
TiCl ₄	7.5E-9	2.1E-9
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-239	Emission unit name: Extruder (28mm)	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Small Extruder Vent, EP ID: R0EEF086 Location: SW West,			
Manufacturer: WERNER-PFLEIDERER	Model number: NA	Serial number: 150047	
Construction date: (MM/DD/YYYY) / / 1974	Installation date: (MM/DD/YYYY) / / 1974	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 5 hr/day- 10pph Extruder operates only for R&D purposes			
Maximum Hourly Throughput: 5 hr/day	Maximum Annual Throughput: 800 hrs/yr	Maximum Operating Schedule: 800 hrs/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.6E-4	1.9E-4
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	0.012	0.0005
Total Particulate Matter (TSP)	0.012	0.0005
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.046	0.019
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrogen Chloride	0.006	0.0025
Hydrogen Fluoride	0.12	0.005
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
TiCl ₄	1.4E-7	6.0E-8
List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).		
<p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-240A	Emission unit name: Extruder (53mm)	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Large Extruder Vent, EP ID: R022EEF087 Location: SW West			
Manufacturer: WERNER-PFLEIDERER CORP.	Model number: ZSK53L	Serial number: 3734	
Construction date: (MM/DD/YYYY) / / 1976	Installation date: (MM/DD/YYYY) / / 1976	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 6 hr/day - 500pph			
Maximum Hourly Throughput: 5 hr/day	Maximum Annual Throughput: 1560 hrs/yr	Maximum Operating Schedule: 1560 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

___ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-240B	Emission unit name: Large Vent Hood	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Location: SW West, EP ID: R022EEF089			
Manufacturer: WERNER-PFLEIDERER	Model number: ESA120	Serial number: 180017	
Construction date: (MM/DD/YYYY) / / 1976	Installation date: (MM/DD/YYYY) / / 1976	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 500PPH			
Maximum Hourly Throughput: 0.17 batches/hr	Maximum Annual Throughput: 1560 hrs/yr	Maximum Operating Schedule: 1560 hrs/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.023	0.018
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	0.0560	0.044
Total Particulate Matter (TSP)	0.056	0.044
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	2.31	1.81
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrogen Fluoride	0.6	0.47
Hydrogen Chloride	0.3	0.234
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
TiCl ₄	6.6E-6	5.0E-6
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

____ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-240C	Emission unit name: Feed Hopper	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Feed Hopper, EP ID: R022EEF085 Location: SW West			
Manufacturer: Custon made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1988	Installation date: (MM/DD/YYYY) / / 1988	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch process			
Maximum Hourly Throughput: 2 hr/batch	Maximum Annual Throughput: 350 Batches	Maximum Operating Schedule: 780 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	0.1	0.078
Total Particulate Matter (TSP)	0.1	0.078
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Engineering estimate

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring shall be by performing a visible emissions check on the stack once per month, not to exceed 45 days. The visible emission check will be made by a person trained in 40 CFR 60, Appendix A, Method 22. Production records will be monitored and recorded monthly. Maintenance and repairs will be monitored and recorded monthly. All records of checks will be kept for five years.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-242	Emission unit name: COOLANT SYSTEM #1	List any control devices associated with this emission unit: NONE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): COOLANT SYSTEM #1 EP ID: R022EEF016			
Manufacturer: DUPONT	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1988	Installation date: (MM/DD/YYYY) / / 1988	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): BATCH PROCESS - 8 GALLON			
Maximum Hourly Throughput: 1HR/BATCH	Maximum Annual Throughput: 10 BATCHES	Maximum Operating Schedule: 10HRS/YR	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating: NA		Type and Btu/hr rating of burners: NA	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. NA			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	6.0E-6	3.0E-8
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
ETHYLENE GLYCOL	6.0E-6	3.0E-8
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

ENGINEERING ESTIMATE

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-243	Emission unit name: COOLANT SYSTEM #2	List any control devices associated with this emission unit: NONE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): COOLANT SYSTEM #2 EP ID: R022EEF014			
Manufacturer: DUPONT	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1996	Installation date: (MM/DD/YYYY) / / 1996	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): BATCH PROCESS - 10 GALLON			
Maximum Hourly Throughput: 1HR/BATCH	Maximum Annual Throughput: 10 BATCHES	Maximum Operating Schedule: 10HRS/YR	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating: NA		Type and Btu/hr rating of burners: NA	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. NA			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-244	Emission unit name: COOLANT SYSTEM #3	List any control devices associated with this emission unit: NONE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): COOLANT SYSTEM #3 EP ID: R022EEF007			
Manufacturer: DUPONT	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1985	Installation date: (MM/DD/YYYY) / / 1985	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): BATCH PROCESS - 30 GALLON			
Maximum Hourly Throughput: 1 HR/BATCH	Maximum Annual Throughput: 10 BATCHES	Maximum Operating Schedule: 10 HRS/YR	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-247	Emission unit name: Line Vent	List any control devices associated with this emission unit: none	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Monomer transfer line vent EP ID: R022ECPV Location North of B22			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 2002	Installation date: (MM/DD/YYYY) / / 2002	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch Process- 4 gallons			
Maximum Hourly Throughput: 1 hr/batch	Maximum Annual Throughput: 1500 batches	Maximum Operating Schedule: 1500 batches/year	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	0.88	0.66
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering Estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-B05	Emission unit name: Exhaust Hood	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Exhaust Vent (EF051) EP ID: R022E-F51 Location Lab 114			
Manufacturer:	Model number:	Serial number:	
Construction date: (MM/DD/YYYY) / / 1950	Installation date: (MM/DD/YYYY) / / 1950	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2815 ACFM			
Maximum Hourly Throughput: 2815 ACFM, 12,920 PPH	Maximum Annual Throughput: 56,593 TONS/YR	Maximum Operating Schedule: 8760 HR/YR	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	4.5X10 ⁷	0.000002
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: R002S-B06	Emission unit name: Exhaust Hood	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Exhaust vent (EF-52) EP ID: R022E-F52 Location: Lab 114

Manufacturer:	Model number:	Serial number:
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Construction date: (MM/DD/YYYY) / / 1950	Installation date: (MM/DD/YYYY) / / 1950	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /
--	--	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

2815 ACFM

Maximum Hourly Throughput: 2815 ACFM, 12,920 PPH	Maximum Annual Throughput: 56,593 TONS/YR	Maximum Operating Schedule: 8760 HR/YR
--	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___Direct Fired
--	---

Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit with the condition number**. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See attachment list for all applicable requirements

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-B17	Emission unit name: Lab 108 Exhaust Hood	List any control devices associated with this emission unit: NONE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Exhaust Vent (EF-63) EP ID: R022E-F63 Location: Lab 108 West side.			
Manufacturer:	Model number:	Serial number:	
Construction date: (MM/DD/YYYY) / / 1950	Installation date: (MM/DD/YYYY) / / 1950	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2815 ACFM			
Maximum Hourly Throughput: 2815 ACFM, 12,920 PPH	Maximum Annual Throughput: 56,593 TONS/YR	Maximum Operating Schedule: 8760 HR/YR	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	4.5X10 ⁷	0.000002
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Engineering estimate

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-B19	Emission unit name: LAB 101 HOOD	List any control devices associated with this emission unit: NA	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Exhaust Hood EF-65 EP ID: R022E-F65 Location Lab 101 west side			
Manufacturer: NA	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1950	Installation date: (MM/DD/YYYY) / / 1950	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2815 ACFM			
Maximum Hourly Throughput: 12,990 pph	Maximum Annual Throughput: 56,896 ton/yr	Maximum Operating Schedule: 8760 hr/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene Chloride	0.0013	0.0055
	NA	NA
	NA	NA
	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
	NA	NA
	NA	NA
	NA	NA
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-B20 (same as 22-S-101)	Emission unit name: Lab Hood	List any control devices associated with this emission unit: NA	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Location: Lab101 East Exhaust hood in Lab 101 (EF-66), EP ID: R022E-F66			
Manufacturer: NA	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1950	Installation date: (MM/DD/YYYY) / / 1950	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2815 ACFM			
Maximum Hourly Throughput: 12,990 pph	Maximum Annual Throughput: 56,896 ton/yr	Maximum Operating Schedule: 8760 hr/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___ Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Methylene chloride	0.0013	0.0055
	NA	NA
	NA	NA
	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
	NA	NA
	NA	NA
	NA	NA
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Engineering estimate</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-B36	Emission unit name: Exhaust Hood	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Location: Lab 210 Exhaust Fan (EF-115) EP ID: R022E-F115			
Manufacturer:	Model number:	Serial number:	
Construction date: (MM/DD/YYYY) / / 1985	Installation date: (MM/DD/YYYY) / / 1985	Modification date(s): (MM/DD/YYYY) NA / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2815 ACFM			
Maximum Hourly Throughput: 2815 ACFM, 12,920 PPH	Maximum Annual Throughput: 56,593 TONS/YR	Maximum Operating Schedule: 8760 HR/YR	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-B38	Emission unit name: LAB HOOD	List any control devices associated with this emission unit: NONE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): LAB 109 VENTED CABINET EP ID R022S-F119; LOCATION: LAB 109			
Manufacturer: BUFFALO FORGE	Model number:	Serial number:	
Construction date: (MM/DD/YYYY) / / 1985	Installation date: (MM/DD/YYYY) / / 1985	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1500ACFM			
Maximum Hourly Throughput: 6300 PPH	Maximum Annual Throughput: 27594 TON/YR	Maximum Operating Schedule: 8760 HR/YR	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R022S-B40	Emission unit name: LAB HOOD	List any control devices associated with this emission unit: NONE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): LAB 208 VENTED CABINET EP ID R022E-F119; LOCATION: TELOMERS GC LAB			
Manufacturer: BUFFALO FORGE	Model number:	Serial number:	
Construction date: (MM/DD/YYYY) / / 1985	Installation date: (MM/DD/YYYY) / / 1985	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1500ACFM			
Maximum Hourly Throughput: 6300 PPH	Maximum Annual Throughput: 27594 TON/YR	Maximum Operating Schedule: 8760 HR/YR	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R029S-230	Emission unit name: Double Cone Fluorinator	List any control devices associated with this emission unit: R029C-229	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Evacuation Vent EP ID: R029EEF130 Location: BLDG 29			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 1985	Installation date: (MM/DD/YYYY) / / 1985	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch Process-24pph			
Maximum Hourly Throughput: 8 hrs/batch	Maximum Annual Throughput: 156 batches	Maximum Operating Schedule: 1248 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R031S902	Emission unit name: PARTS CLEANER	List any control devices associated with this emission unit: NONE	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): PARTS CLEANER EPID: R031E902			
Manufacturer: SAFETY KLEEN	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 2002	Installation date: (MM/DD/YYYY) / / 2002	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 50 GALLON			
Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: 8760HRS/YR	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<i>Emission Unit Description</i>			
Emission unit ID number: R031S903	Emission unit name: SAND/BEAD BLASTER	List any control devices associated with this emission unit: INTEGRAL CYCLONE/BAG FILTER	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): SAND/BEAD BLASTER EPID: R031E903			
Manufacturer: ZERO MFG CO	Model number: BPN 220-1	Serial number: 262914	
Construction date: (MM/DD/YYYY) / / 2002	Installation date: (MM/DD/YYYY) / / 2002	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 900 ACFM			
Maximum Hourly Throughput: 3780 PPH	Maximum Annual Throughput: 16556 TONS/YR	Maximum Operating Schedule: 8760HRS/YR	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

THE VISIBLE EMISSION CHECK WILL BE MADE BY A PERSON TRAINED IN 40 CFR 60, APPENDIX A, METHOD 22.

THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: R022S-205A	Emission unit name: Tank #1 vent	List any control devices associated with this emission unit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): FP SW TFE Tank #1 Vent. EP ID:R022ECPV Location: Cell #1.			
Manufacturer: Custom made by DuPont	Model number: NA	Serial number: NA	
Construction date: (MM/DD/YYYY) / / 2004	Installation date: (MM/DD/YYYY) / / 2004	Modification date(s): (MM/DD/YYYY) / / ; / / / / ; / /	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Batch process- 14 gallons			
Maximum Hourly Throughput: 1 hr/batch	Maximum Annual Throughput: 12 batches	Maximum Operating Schedule: 12 batches/year	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No		If yes, is it? ___ Indirect Fired ___Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Operation of the equipment is subject to 45 CSR 13A or 45 CSR 13B depending on whether for Laboratory or R&D use.

If the operation generates particulate matter or acid gases (excluding HF) it is subject to 45 CSR 7 limitations based on through put and as interpreted by the appropriate 45 CSR 13 interpretive rule.

Use by the unit of Methylene Chloride will make it subject to 45 CSR 27 and the emission limits found in either R13-2654D or in R13-3223

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

MONITORING SHALL BE BY PERFORMING A VISIBLE EMISSIONS CHECK ON THE STACK ONCE PER MONTH.

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THE NUMBER OF LABORATORY TESTS OR THE POUNDS OF PRODUCTION WILL BE RECORDED EACH MONTH.

MAINTENANCE RECORDS WILL BE MONITORED AND RECORDED EACH MONTH

ALL RECORDS WILL BE KEPT FOR FIVE YEARS.

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

Attachment F - Compliance Plans - Negative Declaration

ATTACHMENT F - Schedule of Compliance Form	
<p>Complete this section if you indicated noncompliance with any of the applicable requirements identified in the permit application. For each emission unit which is not in compliance, identify the applicable requirement, the reason(s) for noncompliance, a description of how the source will achieve compliance, and a detailed schedule of compliance. If there is a consent order that applies to this requirement, attach a copy to this form.</p>	
<p>1. Applicable Requirement None - no out of compliance issues</p>	
Unit(s):	Applicable Requirement:
<p>2. Reason for Noncompliance:</p>	
<p>3. How will Compliance be Achieved?</p>	
<p>4. Consent Order Number (if applicable):</p>	
<p>5. Schedule of Compliance. Provide a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance, including a date for final compliance.</p>	
Remedial Measure or Action	Date to be Achieved
<p>6. Submittal of Progress Reports.</p>	
Content of Progress Report:	<p>Report starting date: _____ MM/DD/YYYY</p> <p>Submittal frequency:</p>

Attachment G - Control Device Data Sheets

ATTACHMENT G - Air Pollution Control Device Form		
Control device ID number: R029-C229	List all emission units associated with this control device. R029-S230	
Manufacturer: DuPont Internal Design	Model number: N/A	Installation date: MM/DD/YYYY 1985
Type of Air Pollution Control Device:		
<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Absorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input checked="" type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> Dry Plate Electrostatic Precipitator	
List the pollutants for which this device is intended to control and the capture and control efficiencies.		
Pollutant	Capture Efficiency	Control Efficiency
Hydrogen Fluoride	90%	90%
Fluorine	90%	90%
Fluorides	90%	90%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).		
Scrubbing liquor used in the unit is a nominal 10% solution of KOH. It is made up from adding 45% KOH from a drum to maintain the scrubbing efficiency. Liquor pressure to the scrubber spray distribution is a nominal 80 psig with actual pressure drop through the scrubber is 10 inches water column. Liquor flow rate is a nominal 35 gpm. Design gas flow rate through the scrubber is 2.4 ACFM at 482 degrees F and 1.45 psia. Average gas flow is 1.44 ACFM.		
Is this device subject to the CAM requirements of 40 C.F.R. 64? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If Yes, Complete ATTACHMENT H		
If No, Provide justification. Flow below applicability trigger.		
Describe the parameters monitored and/or methods used to indicate performance of this control device.		
Performance is monitored by measuring the concentration of KOH after every third (3rd) cylinder of fluorine consumed. KOH concentration is maintained greater than or equal to 8% KOH in solution.		

Attachment H - Compliance Assurance Monitoring Declaration

ATTACHMENT H - Compliance Assurance Monitoring (CAM) Plan Form

For definitions and information about the CAM rule, please refer to 40 CFR Part 64. Additional information (including guidance documents) may also be found at <http://www.epa.gov/ttn/emc/cam.html>

CAM APPLICABILITY DETERMINATION

- 1) Does the facility have a PSEU (Pollutant-Specific Emissions Unit considered separately with respect to **EACH** regulated air pollutant) that is subject to CAM (40 CFR Part 64), which must be addressed in this CAM plan submittal? To determine applicability, a PSEU must meet **all** of the following criteria (*If No, then the remainder of this form need not be completed*):
- YES NO
- a. The PSEU is located at a major source that is required to obtain a Title V permit;
 - b. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is **NOT** exempt;

LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:

 - NSPS (40 CFR Part 60) or NESHAP (40 CFR Parts 61 and 63) proposed after 11/15/1990.
 - Stratospheric Ozone Protection Requirements.
 - Acid Rain Program Requirements.
 - Emission Limitations or Standards for which a WVDEP Division of Air Quality Title V permit specifies a continuous compliance determination method, as defined in 40 CFR §64.1.
 - An emission cap that meets the requirements specified in 40 CFR §70.4(b)(12).
 - c. The PSEU uses an add-on control device (as defined in 40 CFR §64.1) to achieve compliance with an emission limitation or standard;
 - d. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than the Title V Major Source Threshold Levels; AND
 - e. The PSEU is **NOT** an exempt backup utility power emissions unit that is municipally-owned.

BASIS OF CAM SUBMITTAL

- 2) Mark the appropriate box below as to why this CAM plan is being submitted as part of an application for a Title V permit:
- RENEWAL APPLICATION.** **ALL** PSEUs for which a CAM plan has **NOT** yet been approved need to be addressed in this CAM plan submittal.
- INITIAL APPLICATION** (submitted after 4/20/98). **ONLY** large PSEUs (i. e., PSEUs with potential post-control device emissions of an applicable regulated air pollutant that are equal to or greater than Major Source Threshold Levels) need to be addressed in this CAM plan submittal.
- SIGNIFICANT MODIFICATION TO LARGE PSEUs.** **ONLY** large PSEUs being modified after 4/20/98 need to be addressed in this cam plan submittal. For large PSEUs with an approved CAM plan, **Only** address the appropriate monitoring requirements affected by the significant modification.

3) ^a BACKGROUND DATA AND INFORMATION

Complete the following table for **all** PSEUs that need to be addressed in this CAM plan submittal. This section is to be used to provide background data and information for each PSEU In order to supplement the submittal requirements specified in 40 CFR §64.4. If additional space is needed, attach and label accordingly.

PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	^b EMISSION LIMITATION or STANDARD	^c MONITORING REQUIREMENT
<u>EXAMPLE</u> Boiler No. 1	Wood-Fired Boiler	PM	Multiclone	45CSR§2-4.1.c.; 9.0 lb/hr	Monitor pressure drop across multiclone: Weekly inspection of multiclone

^aIf a control device is common to more than one PSEU, one monitoring plan may be submitted for the control device with the affected PSEUs identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a). If a single PSEU is controlled by more than one control device similar in design and operation, one monitoring plan for the applicable control devices may be submitted with the applicable control devices identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a).

^bIndicate the emission limitation or standard for any applicable requirement that constitutes an emission limitation, emission standard, or standard of performance (as defined in 40 CFR §64.1).

^cIndicate the monitoring requirements for the PSEU that are required by an applicable regulation or permit condition.

CAM MONITORING APPROACH CRITERIA			
Complete this section for EACH PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide monitoring data and information for EACH indicator selected for EACH PSEU in order to meet the monitoring design criteria specified in 40 CFR §64.3 and §64.4. If more than two indicators are being selected for a PSEU or if additional space is needed, attach and label accordingly with the appropriate PSEU designation, pollutant, and indicator numbers.			
4a) PSEU Designation:	4b) Pollutant:	4c) ^a Indicator No. 1:	4d) ^a Indicator No. 2:
5a) GENERAL CRITERIA Describe the <u>MONITORING APPROACH</u> used to measure the indicators:			
^b Establish the appropriate <u>INDICATOR RANGE</u> or the procedures for establishing the indicator range which provides a reasonable assurance of compliance:			
5b) PERFORMANCE CRITERIA Provide the <u>SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA</u> , such as detector location, installation specifications, and minimum acceptable accuracy:			
^c For new or modified monitoring equipment, provide <u>VERIFICATION PROCEDURES</u> , including manufacturer's recommendations, <u>TO CONFIRM THE OPERATIONAL STATUS</u> of the monitoring:			
Provide <u>QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PRACTICES</u> that are adequate to ensure the continuing validity of the data, (i.e., daily calibrations, visual inspections, routine maintenance, RATA, etc.):			
^d Provide the <u>MONITORING FREQUENCY</u> :			
Provide the <u>DATA COLLECTION PROCEDURES</u> that will be used:			
Provide the <u>DATA AVERAGING PERIOD</u> for the purpose of determining whether an excursion or exceedance has occurred:			

^a Describe all indicators to be monitored which satisfies 40 CFR §64.3(a). Indicators of emission control performance for the control device and associated capture system may include measured or predicted emissions (including visible emissions or opacity), process and control device operating parameters that affect control device (and capture system) efficiency or emission rates, or recorded findings of inspection and maintenance activities.

^b Indicator Ranges may be based on a single maximum or minimum value or at multiple levels that are relevant to distinctly different operating conditions, expressed as a function of process variables, expressed as maintaining the applicable indicator in a particular operational status or designated condition, or established as interdependent between more than one indicator. For CEMS, COMS, or PEMS, include the most recent certification test for the monitor.

^c The verification for operational status should include procedures for installation, calibration, and operation of the monitoring equipment, conducted in accordance with the manufacturer's recommendations, necessary to confirm the monitoring equipment is operational prior to the commencement of the required monitoring.

^d Emission units with post-control PTE \geq 100 percent of the amount classifying the source as a major source (i.e., Large PSEU) must collect four or more values per hour to be averaged. A reduced data collection frequency may be approved in limited circumstances. Other emission units must collect data at least once per 24 hour period.

RATIONALE AND JUSTIFICATION

Complete this section for EACH PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide rationale and justification for the selection of EACH indicator and monitoring approach and EACH indicator range in order to meet the submittal requirements specified in 40 CFR §64.4.

6a) PSEU Designation:

6b) Regulated Air Pollutant:

7) **INDICATORS AND THE MONITORING APPROACH**: Provide the rationale and justification for the selection of the indicators and the monitoring approach used to measure the indicators. Also provide any data supporting the rationale and justification. Explain the reasons for any differences between the verification of operational status or the quality assurance and control practices proposed, and the manufacturer's recommendations. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

8) **INDICATOR RANGES**: Provide the rationale and justification for the selection of the indicator ranges. The rationale and justification shall indicate how EACH indicator range was selected by either a COMPLIANCE OR PERFORMANCE TEST, a TEST PLAN AND SCHEDULE, or by ENGINEERING ASSESSMENTS. Depending on which method is being used for each indicator range, include the specific information required below for that specific indicator range. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

- COMPLIANCE OR PERFORMANCE TEST (Indicator ranges determined from control device operating parameter data obtained during a compliance or performance test conducted under regulatory specified conditions or under conditions representative of maximum potential emissions under anticipated operating conditions. Such data may be supplemented by engineering assessments and manufacturer's recommendations). The rationale and justification shall INCLUDE a summary of the compliance or performance test results that were used to determine the indicator range, and documentation indicating that no changes have taken place that could result in a significant change in the control system performance or the selected indicator ranges since the compliance or performance test was conducted.
- TEST PLAN AND SCHEDULE (Indicator ranges will be determined from a proposed implementation plan and schedule for installing, testing, and performing any other appropriate activities prior to use of the monitoring). The rationale and justification shall INCLUDE the proposed implementation plan and schedule that will provide for use of the monitoring as expeditiously as practicable after approval of this CAM plan, except that in no case shall the schedule for completing installation and beginning operation of the monitoring exceed 180 days after approval.
- ENGINEERING ASSESSMENTS (Indicator Ranges or the procedures for establishing indicator ranges are determined from engineering assessments and other data, such as manufacturers' design criteria and historical monitoring data, because factors specific to the type of monitoring, control device, or PSEU make compliance or performance testing unnecessary). The rationale and justification shall INCLUDE documentation demonstrating that compliance testing is not required to establish the indicator range.

RATIONALE AND JUSTIFICATION: