NATELATIONS FOR ACCEPTING THE ALLEATIONNAIDE

OMB Control No. 2060-NEW

Approval Expires XX/XX/XXXX

The public reporting and recordkeeping burden for this collection of information is estimated to average 47 hours per reponse. Send comments on the Agency's need for the information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed survey to this address.

This information request is to be completed for operations that comprise the Aerospace Manufacturing and Rework source category at your facility. The Aerospace Manufacturing and Rework source category includes any facility engaged, either in whole or in part, in the manufacture or rework of commercial, civil, or military aerospace vehicles or components. Aerospace vehicle component means any fabricated part, processed part, assembly of parts, or completed unit, with the exception of electronic components, of any aircraft including but not limited to airplanes, helicopters, missiles, rockets, and space vehicles.

The North American Industrial Classification System (NAICS) codes that describe facilities that may manufacture or rework aerospace vehicle, components, or parts are listed in the table below. This table is not meant to be exhaustive; facilities classified under other NAICS codes may also be required to complete this information request if they perform activities as defined above.

The reporting year for this information request is 2008. If you cannot provide 2008 data, you must contact Kim Teal of the U.S. EPA at 919-541-5580 or teal.kim@epa.gov prior to completing this information request to explain why 2008 data are not available and obtain permission to submit data from another year.

North American Industrial Classification System Codes for the Aerospace Manufacturing and Rework Industry

NAICS Code	Description
336411	Aircraft Manufacturing
336412	Aircraft Engine and Engine Parts Manufacturing
336413	Other Aircraft Parts and Auxiliary Equipment Manufacturing
336414	Guided Missile and Space Vehicle Manufacturing
336415	Guided Missile and Space Vehicle Propulsion Units and Parts
336419	Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment
481111	Scheduled Passenger Air Transportation
481112	Scheduled Freight Air Transportation
481211	Nonscheduled Chartered Passenger Air Transportation
481212	Nonscheduled Chartered Freight Air Transportation
481219	Other Nonscheduled Air Transportation

You must complete this information request for **ALL** manufacturing operations that constitute aerospace manufacturing and rework at your facility, regardless of whether the operations are presently regulated under the National Emission Standards for Hazardous Air Pollutants for Aerospace Manufacturing and Rework Facilities (aerospace NESHAP). For example, information must be submitted for the following operations even though they are not regulated by the aerospace NESHAP: chemical milling, metal finishing, electrodeposition, composites processing, manufacture of aircraft transparencies, and wastewater operations, among others. Additionally, you must submit information for operations that may be exempt from regulation under the aerospace NESHAP including, but not limited to, low volume usage coatings, activities associated with the manufacture or rework of space vehicles, certain waterborne coatings, certain cleaning operations. Finally, you must submit information where control requirements are not specified for operations under the aerospace NESHAP, including the use of specialty coatings, adhesives, adhesive bonding primers, or sealants.

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However, this information request does not apply to aerospace manufacturing or rework operations that are regulated under NESHAP other than the aerospace NESHAP, with the exception of the Halogenated Solvent NESHAP. For example, you should not include in your response information regarding chromium electroplating operations regulated under the chromium electroplating NESHAP.

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FORM A-1 PARENT COMPANY INFORMATION

Complete this form to identify the **parent company** of this facility. Your response to Section I, Question 8 (Size of parent company) is an important factor that EPA will use in an economic analysis and to identify small businesses. Please note that the total of all full-time and part-time employees should be reported. This information is required for the parent company, not just this facility.

If your facility is a subsidiary or a branch of a larger company, please ensure the response in Section I contains information about the ultimate owner of this facility and all of its operations.

I. Parent Company / Legal Corporate Owner Information

1. Legal Parent Company / Legal Corporate Name. If your facility is a subsidiary of a larger corporation, franchise, etc. or if you are the owner of multiple facilities, please provide the name of the corporation, franchise, etc. Otherwise, you may respond with N/A.

- 2. Address 1
- 3. Address 2
- 4. City
- 5. State
- 6. Zip Code
- 7. County

8. Size of Parent Company (approximate total number of full-time and part-time employees including all subsidiaries, branches, and related establishments owned):



FORM A-2 FACILITY INFORMATION

Complete this for for this specific facility.

I. Facility Information

 1. Facility Name and Location

 Facility Physical Address

 Street

 City

 State

 Zip Code

 County

 Facility Mailing Address

 Address 1

 Address 2

 City

 State

 Zip Code

Facility Coordinates. Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at

http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php

Latitude (decimal degrees, five decimal places)

Longitude (decimal degrees, five decimal places)

Specific location represented (e.g., front door of main building, centroid of property, etc.)

2. Does this facility manufacture, repair, rework, or otherwise modify parts or assemblies for the aerospace industry? If you answer "No" to this question, please provide an explanation in the Comments section of what activities are carried out at this facility and why you should not be considered an aerospace manufacturing or rework facility. If you answer "No" then you do not have to complete any other parts of this information request other than Forms A-1 and A-2.

3. If "Yes," what NAICS codes describe your aerospace operations? NAICS codes may be found at http://www.census.gov/eos/www/naics/. Do not enter Standard Industrial Classification (SIC) codes.

Primary NAICS Code Other NAICS Code Other NAICS Code

4. Number of employees (full-time and part-time combined) Total number of employees at this facility

Total number of employees performing aerospace operations

5. Do you manufacture or rework aerospace components or parts

for the following market segments?

Original equipment manufacturing - commercial Original equipment manufacturing - military **Rework - commercial** Rework - military

6. Operation schedule

hrs/day days/yr

II. Technical Contact

The technical contact should be able to answer inquires from EPA concerning any information provided in your response.

Name **Technical Contact Title**









Telephone Facsimile (Fax) Email

III. Other

1. Is the facility a major source of HAP? A major source of HAP is defined as any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit considering controls, in the aggregate, 10 tons per year or more of any hazardous air pollutant.

2. If "No", did the facility take a federally enforceable permit limit of its potential HAP emissions to avoid classification as a major source? If you did take permit limits, specify those limits in the Comments section.

3. Does the facility manufacture other products in addition to aerospace products?

4. If "Yes", list the other products manufactured at the facility.

5. Multiplier to scale up average hourly emissions to maximum hourly emissions (see instructions)

6. Comments (include description of how the maximum hourly emissions multipier listed in #5 was determined)

FORM B-1 SPRAY BOOTH INFORMATION

	Booth 1	Booth 2	Booth 3
I. Booth Description and Location			
1. Identification No.			
2. Booth Type			
3. Dimensions of Building in Which Booth is Located (NOT the dimensions of the booth itself)			
Length (ft)			
Width (ft)			
Height (ft)			
4. Airflow Direction in Booth			
5. Average Daily Operating Hours			
II. Particulate Filters			
1. Type of Filter System			
2. Filter Control Efficiency (percent)			
3 How was the filter control efficiency determined (indicate ves where			

3. How was the filter control efficiency determined (indicate yes where appropriate)

Testing (specify method)		
Filter Manufacturer's Specifications		
Engineering Estimate		

III. Exhaust Stack

1. Exhaust Stack Location

Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php

Latitude (decimal degrees to at least five decimal places)

- Longitude (decimal degrees to at least five decimal places)
- 2. Exhaust Stack Diameter (ft)

- 3. Exhaust Stack Height (ft)
- 4. Exhaust Stream Temperature (°F)
- 5. Exhaust Stream Flow Rate (acfm)

IV. Control Device for Organic Emissions

Complete this section if this spray booth is vented to a control device that reduces the amount of organic emissions.

1. Identification No. (must correspond to ID No. of one of the control devices for which a Form J was completed)		
2. Type of Control Device		
3. Capture Efficiency		
4. How was capture efficiency determined?		
Testing (specify method)		
Filter Manufacturer's Specifications		

Engineering Estimate

V. Comments

Use this section to explain any of the above responses or to provide additional information

Booth 4	Booth 5	Booth 6	Booth 7	Booth 8

Booth 9	Booth 10
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FORM C-1 COATINGS

Use Form C-1 for entering coating information in English units (pounds, gallons, etc.). Use Form C-2 for enterning coating information in metric units (kilograms, liters, etc.). DO NOT complete both Form C-1 and Form C-2.

This form has space for entering data for 20 coatings. If you are providing data for more than 20 coatings, please add additional columns as necessary.

I. Coating Information

- 1. Identification No.
- 2. Manufacturer
- 3. Product Name

4. Is this coating regulated under the Aerospace Manufacturing and Rework Operations National Emission Standards for Hazardous Air Pollutants (40 CFR 63, subpart GG)?

5. If "Yes," what is the coating type?

6. If "No," what is the specialty coating type?

II. Coating Usage and Physical Properties

1. Total Volume Used for the Reporting Year for all coating operations (gals)

 As-Applied Coating Physical Properties Coating Density (lb coating/gal coating) Total Organic HAP Mass Fraction (lb HAP/lb coating) Total Inorganic HAP Mass Fraction (lb HAP/lb coating) Solids Mass Fraction (lb solids/lb coating) Solids Volume Fraction (gal solids/gal coating)

3. Speciated HAP (Organic and Inorganic) Content

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Coating 2

Coating 3

Coating 1

To avoid double counting, do not report the same HAP emissions under different CAS numbers or as different compounds. For example, do not report both "total chromium" and "hexavalent chromium" for a single chromium compound contained in a coating. The correct reporting method, particularly for chromium compounds, glycol ethers, and polycyclic organic matter, is to report the specific compound (e.g., strontium chromate, ethylene glycol dibutyl ether) rather than the general class of HAP (e.g., chromium compounds, glycol ethers).

HAP Name		
CAS No.		
HAP Mass Fraction (Ib HAP/Ib coating)		
HAP Name		

CAS No.		
HAP Mass Fraction (Ib HAP/Ib coating)		

HAP Name CAS No. HAP Mass Fraction (Ib HAP/Ib coating)

HAP Name CAS No. HAP Mass Fraction (Ib HAP/Ib coating)

HAP Name CAS No. HAP Mass Fraction (Ib HAP/Ib coating)

III. Coating Usage by Spray Booth

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

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Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Application of Coating Outside of a Spray Booth - Application Method

Portion of Annual Coating Usage Applied Outside of a Booth (percent)

IV. Comments

Use this section to explain any of the above responses or to provide additional information











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Coating 19

Coating 20

FORM C-2 COATINGS

Use Form C-1 for entering coating information in English units (pounds, gallons, etc.). Use Form C-2 for enterning coating information in metric units (kilograms, liters, etc.). DO NOT complete both Form C-1 and Form C-2.

This form has space for entering data for 20 coatings. If you are providing data for more than 20 coatings, please add additional columns as necessary.

I. Coating Information

- 1. Identification No.
- 2. Manufacturer
- 3. Product Name

4. Is this coating regulated under the Aerospace Manufacturing and Rework Operations National Emission Standards for Hazardous Air Pollutants (40 CFR 63, subpart GG)?

5. If "Yes," what is the coating type?

6. If "No," what is the specialty coating type?

II. Coating Usage and Physical Properties

1. Total Volume Used for the Reporting Year for all coating operations (liters)

 As-Applied Coating Physical Properties Coating Density (kg coating/L coating) Total Organic HAP Mass Fraction (kg HAP/kg coating) Total Inorganic HAP Mass Fraction (kg HAP/kg coating) Solids Mass Fraction (kg solids/kg coating) Solids Volume Fraction (L solids/L coating)

3. Speciated HAP (Organic and Inorganic) Content

Coating 2

Coating 3

Coating 1

To avoid double counting, do not report the same HAP emissions under different CAS numbers or as different compounds. For example, do not report both "total chromium" and "hexavalent chromium" for a single chromium compound contained in a coating. The correct reporting method, particularly for chromium compounds, glycol ethers, and polycyclic organic matter, is to report the specific compound (e.g., strontium chromate, ethylene glycol dibutyl ether) rather than the general class of HAP (e.g., chromium compounds, glycol ethers).

HAP Name HAP Mass Fraction (kg HAP/kg coating)		
HAP Name HAP Mass Fraction (kg HAP/kg coating)		
HAP Name HAP Mass Fraction (kg HAP/kg coating)		
HAP Name HAP Mass Fraction (kg HAP/kg coating)		

HAP Name HAP Mass Fraction (kg HAP/kg coating)

III. Coating Usage by Spray Booth

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

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Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

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Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Application of Coating Outside of a Spray Booth - Application Method

Portion of Annual Coating Usage Applied Outside of a Booth (percent)

IV. Comments

Use this section to explain any of the above responses or to provide additional information

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Coating 19

Coating 20

FORM D-1 CHEMICAL MILLING AND METAL FINISHING OPERATIONS

Complete this form for each processing tank that contains HAP in chemical milling and metal finishing operations. If your facility does not have chemical milling or metal finishing operations, state that in the Comments section.

I. Processing Tank Description and Location	Tank 1	Tank 2	Tank 3
1. Tank Identification No.			

2. Location of Tank (Not required if a control device is listed in Section II, Question 2 below for the tank)

Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php

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Longitude (decimal degrees to at least five decimal places)

- 3. Dimensions of Building in Which Tank is Located
 - Length (ft)
 - Width (ft)
 - Height (ft)

4. Purpose of this Tank

5. Average Daily Hours of Operation Average Days per Year of Operation

II. HAP Emissions and Controls

To avoid double counting, do not report the same HAP emissions under different CAS numbers or as different compounds. For example, do not report both "total chromium" and "hexavalent chromium" for a single chromium compound contained in a coating. The correct reporting method, particularly for chromium compounds, glycol ethers, and polycyclic organic matter, is to report the specific compound (e.g., strontium chromate, ethylene glycol dibutyl ether) rather than the general class of HAP (e.g., chromium compounds, glycol ethers).

1. HAP Emissions		
HAP Name		
CAS No.		
Emissions (lb/yr)		
HAP Name		
CAS No.		
Emissions (lb/yr)		
HAP Name		
CAS No.		
Emissions (lb/yr)		
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HAP Name		
CAS No.		
Emissions (lb/yr)		
HAP Name		
CAS No.		
Emissions (lb/yr)		
2. Control Device Identification No. (must correspond to ID No. of one of the control devices for which a Form J was completed)		
3. Type of Control Device		
4. Capture Efficiency		
5. How was capture efficiency determined?		
Testing (specify method)		
Manufacturer's Specifications		
Engineering Estimate		

Describe any work practices that you use to reduce emissions from this tank

IV. Comments

Tank 4	Tank 5	Tank 6	Tank 7	Tank 8

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FORM E-1 BLAST DEPAINTING/CLEANING OPERATIONS

Complete this form for each depainting or cleaning operation that utilizes a blasting method (plastic beads, metal shot, sodium bicarbonate, carbon dioxide, etc.) to depaint or clean aerospace components. If your facility does not have blast depainting/cleaning operations, state that in the comments section.

	Operation 1	Operation 2	Operation 3
1. Process Identification No.			

2. Location of Blasting Operation (Not required if a control device is listed in Section II, Question 2 below for the operation)

Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php

Latitude (decimal degrees to at least five decimal places)

Longitude (decimal degrees to at least five decimal places)

3. Identify where blasting occurs (e.g., outside, in a partially enclosed booth, in a fully enclosed booth, etc.)

4. Identify the type of blasting media used (be specific)

 Dimensions of Building in Which Operation is Located Length (ft) Width (ft)

Height (ft)

6. Purpose of this Blasting Operation

7. Average Daily Hours of Operation Average Days per Year of Operation





II. HAP Emissions and Controls

To avoid double counting, do not report the same HAP emissions under different CAS numbers or as different compounds. For example, do not report both "total chromium" and "hexavalent chromium" for a single chromium compound contained in a coating. The correct reporting method, particularly for chromium compounds, glycol ethers, and polycyclic organic matter, is to report the specific compound (e.g., strontium chromate, ethylene glycol dibutyl ether) rather than the general class of HAP (e.g., chromium compounds, glycol ethers).

1. HAP Emissions		
HAP Name		
CAS No.		
Emissions (lb/yr)		
HAP Name		
CAS No.		
Emissions (lb/yr)		
HAP Name		
CAS No.		
Emissions (lb/yr)		
HAP Name		
CAS No.		
Emissions (lb/yr)		
HAP Name		
CAS No		
Emissions (Ib/yr)		
2. Control Device Identification No. (must correspond to ID No. of one of the control devices for which a Form J was completed)		
3. Type of Control Device		
4. Capture Efficiency		
5. How was capture efficiency determined?		
Testing (specify method)		

Manufacturer's Specifications

Engineering Estimate

III. Work Practices

Describe any work practices that you use to reduce emissions from this process

IV. Comments

FORM E-2 SOLVENT DEPAINTING OPERATIONS

Complete this form for each depainting operation that utilizes solvent (liquid) materials to depaint aerospace components. If your facility does not have any solvent depainting operations, state that in the Comments section.

Operation 1	Operation 2	Operation 3

1. Process Identification No.

2. Location of Depainting Operation (Not required if a control device is listed in Section II, Question 2 below for the operation)

Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php

Latitude (decimal degrees to at least five decimal places) Longitude (decimal degrees to at least five decimal places)

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3. Dimensions of Building in Which Operation is Located

Length (ft)		
Width (ft)		
Height (ft)		

4.	Purpose of	this Depainting	Operation
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5. Average Daily Hours of Operation Average Days per Year of Operation

ear of operation			

II. HAP Emissions and Controls

Report HAP emissions for organic HAP contained in the solvent depainting materials only. Do not report HAP contained in the coatings removed. To avoid double counting, do not report the same HAP emissions under different CAS numbers or as different compounds. For example, do not report both "total chromium" and "hexavalent chromium" for a single chromium compound contained in a coating. The correct reporting method, particularly for chromium compounds, glycol ethers, and polycyclic organic matter, is to report the specific compound (e.g., strontium chromate, ethylene glycol dibutyl ether) rather than the general class of HAP (e.g., chromium compounds, glycol ethers).

L. HAP Emissions		
HAP Name		
CAS No.		
Emissions (Ib/yr)		
HAP Name		
CAS No.		
Emissions (lb/yr)		
HAP Name		
CAS No.		
Emissions (lb/yr)		
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HAP Name	 	
CAS No.	 	
Emissions (lb/yr)		
HAP Name		
CAS No.		
Emissions (lb/yr)		
2. Control Device Identification No. (must correspond to ID No. of one		

of the control devices for which a Form J was completed)

3. Type of Control Device

4. Capture Efficiency

5. How was capture efficiency determined?

Testing (specify method)		
Manufacturer's Specifications		
Engineering Estimate		

Describe any work practices that you use to reduce emissions from this		
process		

IV. Comments

FORM E-3

SOLVENT CLEANING OPERATIONS - POINT SOURCES AND FUGITIVE SOURCES

Complete this form for each cleaning operation that utilizes solvent (liquid) materials to clean aerospace components. If your facility does not have any solvent cleaning operations, state that in the Comments section. Do not report solvent cleaning operations that are subject to the Halogenated Solvent Cleaning NESHAP (40 CFR part 63, subpart T) on this form. Use Form E-4 to report halogenated solvent cleaning covered under subpart T. **Please see the instructions for further information before completing Forms E-3 and E-4.**

PART A - POINT SOURCES. Complete this section for each cleaning operation that occurs within an enclosure that is vented through a stack outside of the building

I. General Information

	Operation 1	Operation 2	Operation 3
1. Process Identification No.			

2. Exhaust Stack Location

Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php

Latitude (decimal degrees to at least five decimal places)

Longitude (decimal degrees to at least five decimal places)

- 3. Exhaust Stack Diameter (ft)
- 4. Exhaust Stack Height (ft)
- 5. Exhaust Stream Temperature (°F)
- 6. Exhaust Stream Flow Rate (acfm)

7. (Optional) Dimensions of Building in Which Operation is Located

Length (ft)
Width (ft)
Height (ft)

8. Purpose of this Cleaning Operation

9. Average Daily Hours of Operation Average Days per Year of Operation

II. HAP Emissions and Controls

To avoid double counting, do not report the same HAP emissions under different CAS numbers or as different compounds. For example, do not report both "total chromium" and "hexavalent chromium" for a single chromium compound contained in a coating. The correct reporting method, particularly for chromium compounds, glycol ethers, and polycyclic organic matter, is to report the specific compound (e.g., strontium chromate, ethylene glycol dibutyl ether) rather than the general class of HAP (e.g., chromium compounds, glycol ethers).

HAP Name CAS No. Emissions (lb/yr)

Emissions (lb/yr)

1. HAP Emissions HAP Name CAS No.

Emissions (lb/yr)

HAP Name CAS No.

HAP Name

CAS No.		
Emissions (lb/yr)		
HAP Name		
CAS No.		
Emissions (lb/yr)		
2. Control Device Identification No. (must correspond to ID No. of one of the control devices for which a Form J was completed)		
3. Type of Control Device		
4. Capture Efficiency		
5. How was capture efficiency determined?		
Testing (specify method)		
Manufacturer's Specifications		
Engineering Estimate		

Describe any work practices that you use to reduce emissions from this process

IV. Comments

Use this section to explain any of the above responses or to provide additional information

B. FUGITIVE SOURCES - Complete this section for cleaning operations that are not vented outside of the building. Combine all fugitive solvent cleaning operations in a building in a single entry.

I. General Information

Building Identification		

2. Building Location (center of building)

Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php

Latitude (decimal degrees to at least five decimal places) Longitude (decimal degrees to at least five decimal places)

3. Dimensions of Building

Length (ft) Width (ft) Height (ft)

4. Purpose of this Cleaning Operation

5. Average Daily Hours of Operation Average Days per Year of Operation

II. HAP Emissions

 HAP Emissions HAP Name CAS No.

Emissions (lb/yr)

To avoid double counting, do not report the same HAP emissions under different CAS numbers or as different compounds. For example, do not report both "total chromium" and "hexavalent chromium" for a single chromium compound contained in a coating. The correct reporting method, particularly for chromium compounds, glycol ethers, and polycyclic organic matter, is to report the specific compound (e.g., strontium chromate, ethylene glycol dibutyl ether) rather than the general class of HAP (e.g., chromium compounds, glycol ethers).

HAP Name CAS No. Emissions (lb/yr)		
HAP Name CAS No. Emissions (Ib/yr)		
HAP Name CAS No. Emissions (Ib/yr)		
HAP Name CAS No. Emissions (lb/yr)		

Describe any work practices that you use to reduce emissions from this process

IV. Comments

FORM E-4 SOLVENT CLEANING OPERATIONS

1. Process Identification No.

Complete this form for each cleaning operation that is subject to the Halogenated Sovent Cleaning NESHAP (40 CFR part 63, subpart T) and NOT subject to the aerospace manufacturing and rework operations NESHAP. If your facility does not have any cleaning operations subject to subpart T, state that in the Comments section. Do not report solvent cleaning operations that are subject to the Aerospace Manufactuing and Rework Operations NESHAP on this form. Use Form E-3 to report solvent cleaning covered under the aeropsace NESHAP. **Please see the instructions for further information before completing Forms E-3 and E-4**.

Operation 1	Operation 2	Operation 3

2. Location of Cleaning Operation (Not required if a control device is listed in Section II, Question 2 below for the operation)

Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php

Latitude (decimal degrees to at least five decimal places) Longitude (decimal degrees to at least five decimal places)

3. Dimensions of Building in Which Operation is Located

4. Purpose of this Cleaning Operation

5. Average Daily Hours of Operation Average Days per Year of Operation

II. HAP Emissions and Controls

Length (ft) Width (ft) Height (ft)

- t		
_ L		

1. HAP Emissions Methylene Chloride		
CAS No. 75-09-02		
Emissions (lb/yr)		
Developmentledene		
CAS NO. 127-18-4		
Emissions (ID/yr)		
Trichloroethylene		
CAS No. 79-01-6		
Emissions (lb/yr)		
1,1,1-Trichloroethane		
CAS No. 71-55-6		
Emissions (lb/yr)		
Carbon Tetrachloride		
CAS No. 56-23-5		
Emissions (lb/yr)		
Chloroform		
CAS No. 67-66-3		
Emissions (Ib/yr)		
2. Control Device Identification No. (must correspond to ID No. of one of the control devices for which a Form J was completed)		
3. Type of Control Device		
4. Capture Efficiency		
5. How was capture efficiency determined?		
Testing (specify method)		
Manufacturer's Specifications		
Engineering Estimate		

Describe any work practices that you use to reduce emissions from this process

IV. Comments

FORM F-1

Composite Processing Operations

Use Form F-1 for entering resin information in English units (pounds, gallons, etc.). Use Form F-2 for enterning resin information in metric units (kilograms, liters, etc.). DO NOT complete both Form F-1 and Form F-2.

This form has space for entering data for 10 resins. If you are providing information on more than 10 resins, please add additional columns. If your facility does not have any composite processing operations, state that in the Comments section.

I. Resin Information

- 1. Identification No.
- 2. Manufacturer
- 3. Product Name

II. Resin Usage and Physical Properties

- 1. Total Volume Used for the Reporting Year (gals)
- As-Applied Resin Physical Properties
 Resin Density (lb coating/gal coating)
 Total Organic HAP Mass Fraction (lb HAP/lb coating)
 Total Inorganic HAP Mass Fraction (lb HAP/lb coating)
 Solids Mass Fraction (lb solids/lb coating)
 Solids Volume Fraction (gal solids/gal coating)

3. Speciated HAP (Organic and Inorganic) Content

To avoid double counting, do not report the same HAP emissions under different CAS numbers or as different compounds. For example, do not report both "total chromium" and "hexavalent chromium" for a single chromium compound contained in a coating. The correct reporting method, particularly for chromium compounds, glycol ethers, and polycyclic organic matter, is to report the specific compound (e.g., strontium chromate, ethylene glycol dibutyl ether) rather than the general class of HAP (e.g., chromium compounds, glycol ethers).

HAP Name		
CAS No.		
HAP Mass Fraction (Ib HAP/Ib coating)		
HAP Name		
CAS No.		
HAP Mass Fraction (Ib HAP/Ib coating)		
HAP Name		
CAS No.		
HAP Mass Fraction (Ib HAP/Ib coating)		
HAP Name		
CAS No.		
HAP Mass Fraction (Ib HAP/Ib coating)		
HAP Name	 	
CAS No.		
HAP Mass Fraction (Ib HAP/Ib coating)		
4. Estimated Percent of Organic HAP Emitted		
III. Resin Usage by Spray Booth		
Spray Poath Identification No. (from Form P. 1)		
Spray Booth Identification No. (from Form B-1)		
Portion of Annual Coating Usage in this Booth (percent)		
Spray Rooth Identification No. (from Form P-1)		
Portion of Appual Coating Lisage in this Booth (percent)		
For tion of Annual Coating Osage in this booth (percent)		
Spray Booth Identification No. (from Form B-1)		
Portion of Annual Coating Usage in this Booth (nercent)		
ronion of Annual Coating Osage in this booth (percent)		

Portion of Annual Coating Usage Applied Outside of a Booth (percent)

Application of Coating Outside of a Spray Booth - Application Method

IV. Control Device for Organic Emissions

1. Identification No. (must correspond to ID No. of one of the control devices for which a J Form was completed)		
2. Type of Control Device		
3. Capture Efficiency		
4. How was capture efficiency determined?		
Testing (specify method)		
Manufacturer's Specifications		
Engineering Estimate		

V. Comments

Use this section to explain any of the above responses or to provide		
additional information		

Resin 4	Resin 5	Resin 6	Resin 7	Resin 8
Resin 9 Resin 10

1	

-	

FORM F-2 Composite Processing Operations

Use Form F-1 for entering resin information in English units (pounds, gallons, etc.). Use Form F-2 for enterning resin information in metric units (kilograms, liters, etc.). DO NOT complete both Form F-1 and Form F-2. This form has space for entering data for 10 resins. If you are providing information on more than 10 resins, please add additional columns.

This form has space for entering data for 10 resins. If you are providing information on more than 10 resins, please add additional columns. If your facility does not have any composite processing operations, state that in the Comments section.

Resin 1	Resin 2

Resin 3

I. Resin Information

- 1. Identification No.
- 2. Manufacturer
- 3. Product Name

II. Resin Usage and Physical Properties

1. Total Volume Used for the Reporting Year (liters)

As-Applied Resin Physical Properties
 Resin Density (kg coating/L coating)
 Total Organic HAP Mass Fraction (kg HAP/kg coating)
 Total Inorganic HAP Mass Fraction (kg HAP/kg coating)
 Solids Mass Fraction (kg solids/kg coating)
 Solids Volume Fraction (L solids/L coating)

3. Speciated HAP (Organic and Inorganic) Content

To avoid double counting, do not report the same HAP emissions under different CAS numbers or as different compounds. For example, do not report both "total chromium" and "hexavalent chromium" for a single chromium compound contained in a coating. The correct reporting method, particularly for chromium compounds, glycol ethers, and polycyclic organic matter, is to report the specific compound (e.g., strontium chromate, ethylene glycol dibutyl ether) rather than the general class of HAP (e.g., chromium compounds, glycol ethers).

CAS No.ImageImageHAP NameImageImageCAS No.ImageImageHAP Mass Fraction (kg HAP/kg coating)ImageHAP Mass Fraction (kg HAP/kg coating)Image			
HAP Mass Fraction (kg HAP/kg coating)ImageHAP NameImageCAS No.ImageHAP Mass Fraction (kg HAP/kg coating)Image			
HAP NameImage: CAS No.Image: CAS No.HAP Mass Fraction (kg HAP/kg coating)Image: CAS No.Image: CAS No.			
HAP NameImage: CAS No.Image: CAS No.HAP Mass Fraction (kg HAP/kg coating)Image: CAS No.Image: CAS No.			
CAS No.			
HAP Mass Fraction (kg HAP/kg coating)			
HAP Name			
CAS No.			
HAP Mass Fraction (kg HAP/kg coating)			
HAP Name			
CAS No.			
HAP Mass Fraction (kg HAP/kg coating)			
HAP Name			
CAS No.			
HAP Mass Fraction (kg HAP/kg coating)			
1. Estimated Percent of Organic HAP Emitted			

III. Resin Usage by Spray Booth

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)

Spray Booth Identification No. (from Form B-1) Portion of Annual Coating Usage in this Booth (percent)		
Application of Coating Outside of a Spray Booth - Application Method		
Portion of Annual Coating Usage Applied Outside of a Booth (percent)		

IV. Control Device for Organic Emissions

1. Identification No. (must correspond to ID No. of one of the control devices for which a Form J was completed)		
2. Type of Control Device		
3. Capture Efficiency		

4.	How was capture efficiency determined?
	Testing (specify method)
	Manufacturer's Specifications
	Engineering Estimate

Image: second second

V. Comments

Use this section to explain any of the above responses or to provide additional information

rovide		

Resin 4	Resin 5	Resin 6	Resin 7	Resin 8

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10	
	10

FORM G-1 STORAGE TANKS

Use this form for each stationary storage tank that contains HAP. Do not report tanks that contain fuel for engines, boilers, or other comnustion device. If your facility does not have any storage tanks that contain HAP, state that in the Comments section.

	Tank 1	Tank 2	Tank 3
I. Storage Tank Description and Location			

- 1. Identification No.
- 2. Tank Type

3. Tank Location (Not required if a control device is listed in Section II, Question 2 below for the tank)

Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php

Latitude (decimal degrees to at least five decimal places)

Longitude (decimal degrees to at least five decimal places)

4. Dimensions of Tank

Diameter (ft) Height (ft)

5. Liquid Stored in Tank

6. Dimensions of Building in Which Tank is Located

Length (ft) Width (ft) Heig

ght	(ft)	
5110	(10)	

II. Throughput and Emissions

Emissions may be calculated using EPA's TANKS Emissions Estimation Software. If you use TANKS, you must provide all input values and model outputs.

1. Annual Throughput (gals)

2. HAP Emissions

To avoid double counting, do not report the same HAP emissions under different CAS numbers or as different compounds. For example, do not report both "total chromium" and "hexavalent chromium" for a single chromium compound contained in a coating. The correct reporting method, particularly for chromium compounds, glycol ethers, and polycyclic organic matter, is to report the specific compound (e.g., strontium chromate, ethylene glycol dibutyl ether) rather than the general class of HAP (e.g., chromium compounds, glycol ethers).

HAP Component in Liquid Stored		
Mass Fraction of HAP Component in Liquid (lb HAP/lb liquid)		
Emissions (lb/yr)		
Emission Estimation Method		
HAP Component in Liquid Stored		
Mass Fraction of HAP Component in Liquid (lb HAP/lb liquid)		
Emissions (lb/yr)		
Emission Estimation Method		
HAP Component in Liquid Stored		
Mass Fraction of HAP Component in Liquid (lb HAP/lb liquid)		
Emissions (lb/yr)		
Emission Estimation Method		
HAP Component in Liquid Stored		
Mass Fraction of HAP Component in Liquid (lb HAP/lb liquid)		
Emissions (lb/yr)		
Emission Estimation Method		

HAP Component in Liquid Stored Mass Fraction of HAP Component in Liquid (Ib HAP/Ib liquid)



Emissions (lb/yr)		
Emission Estimation Method		

3. Control Device Identification No. (must correspond to ID No. of one of the control devices for which a Form J was completed)

- 4. Type of Control Device
- 5. Capture Efficiency
- How was capture efficiency determined? Testing (specify method) Manufacturer's Specifications Engineering Estimate

III. Work Practices

Describe any work practices that you use to reduce emissions from this tank

IV. Comments

Use this section to explain any of the above responses or to provide additional information

Tank 4	Tank 5	Tank 6	Tank 7	Tank 8

•	•	•	•

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Tank 9	Tank 10
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FORM H-1 WASTEWATER TREATMENT OPERATIONS

Use this form to report wastewater treatment operations that treat or use HAP-containing materials. If your facility does not have any wastewater treatment operations that treat or use HAP-contianing materials, then state that in the Comments section.

	Tank/Process 1	Tank/Process 2	Tank/Process 3
I. Processing Tank/Process Description and Location			
1 Tapk/Process Identification No			
1. Tank/Process identification No.			
 Location of Tank/Process (Not required if a control device is listed in Section II, Question 2 below for the tank/process) 			
Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php			
Latitude (decimal degrees to at least five decimal places)			
Longitude (decimal degrees to at least five decimal places)			
3. Dimensions of Building in Which Tunk/Process is Located			
Length (It)			
Width (ft)			
neight (II)			
4. Purpose of this Tank/Process			
5. Average Daily Hours of Operation			
Average Days per Year of Operation			
II. HAP Emissions and Controls			

To avoid double counting, do not report the same HAP emissions under different CAS numbers or as different compounds. For example, do not report both "total chromium" and "hexavalent chromium" for a single chromium compound contained in a coating. The correct reporting method, particularly for chromium compounds, glycol ethers, and polycyclic organic matter, is to report the specific compound (e.g., strontium chromate, ethylene glycol dibutyl ether) rather than the general class of HAP (e.g., chromium compounds, glycol ethers).

1. HAP Emissions		
HAP Name		
CAS No.		
Emissions (lb/yr)		
Fugitive or Stack Emissions		
HAP Name		
CAS No.		
Emissions (lb/yr)		
Fugitive or Stack Emissions		
HAP Name		
CAS No.		
Emissions (lb/yr)		
Fugitive or Stack Emissions		
HAP Name		
CAS No.		
Emissions (lb/yr)		
Fugitive or Stack Emissions		
HAP Name		
CAS No.		
Emissions (lb/yr)		
Fugitive or Stack Emissions		

2. Control Device Identification No. (must correspond to ID No. of one of the control devices for which a Form J was completed)

3. Type of Control Device

4. Capture EfficiencyImage: Capture efficiency determined?5. How was capture efficiency determined?Testing (specify method)Manufacturer's SpecificationsEngineering EstimateImage: Capture efficiency determined?

III. Work Practices

Describe any work practices that you use to reduce emissions from this tank/process

IV. Comments

Use this section to explain any of the above responses or to provide additional information

Tank/Process 4	Tank/Process 5	Tank/Process 6	Tank/Process 7	Tank/Process 8

Tank/Process 9 Tank/Process 10

FORM I-1

STARTUPS AND SHUTDOWNS

1. For each startup and shutdown event during the reporting year that resulted in excess HAP emissions AND that caused a NESHAP emission limit to be exceeded or caused a deviation of any requirement of the NESHAP, please provide the following information requested in A. through F. Using the definitions provided below, indicate whether the event was a startup or shutdown.

Startup: the setting in operation of an affected source or portion of an affected source for any purpose.

Shutdown: the cessation of operation of an affected source or portion of an affected source for any purpose.

A. A description of each event, including identification of the emissions source or sources associated with the event.

- B. What standard was exceeded;
- C. The duration of each event;

D. The actions taken to minimize emissions during the event, including the use of any backup control systems;

E. Estimates or measurements, if any, of emissions during the event. If you did not have the ability to quantify emissions during the event, please explain why.

2. Are there any types of startup or shutdown events that you have been able to eliminate; if so, how? Use additional space if necessary.

3. Please submit a copy of any plan you have been required to develop to address startup and shutdown events.

4. Please provide all performance test data collected during periods of startup and shutdown over the last 3 years. Indicate the test method used for each event.

5. Please provide all monitoring data, including control system parameter monitoring, collected during periods of startup or shutdown over the last 3 years.



6. Optional: Do you wish to recommend a standard that would apply during startup or shutdown? If so, please describe the event to which the standard would apply; the recommended standard (this could be an emission limitation, work practice, or operational standard) that would apply during the period; the basis for the recommended standard; why and how the standard would minimize emissions during the event; and how would compliance be determined and/or monitored. Use additional space if necessary.



FORM J-1 AIR POLLUTION CONTROL

I. Electrostatic Precipitator (ESP)

For each ESP:	ESP 1	ESP 2	ESP 3
Process line(s) (identification name/number)			
Equipment/process(es) controlled. Include identification number listed			
on Forms B - F.			
Latitude and longitude must be reported in decimal degrees to five			
decimal places. For example, EPA Headquarters at 1200 Pennsylvania			
Ave, NW in Washington, D.C. is 38.89491 latitude and -//.02862			
Mans to identify latitude/longitude information at			
http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php			
Latitude (decimal degrees, five decimal places)			
Longitude (decimal degrees, five decimal places)			
Stack or vent height (ft)			
Stack or vent diameter (ft)			
Manufacturer and model			
Date of original installation			
Number of collection plates and configuration			
Gas flow rate to ESP (acfm)			
Inlet gas temperature (°F)			
Outlet gas temperature (°F)			
Inlet grain loading (gr/dscf)			
Outlet grain loading (gr/dscf)			
Average stack opacity (%)			
Pressure drop across ESP (in. H_2O gauge)			
Plate area (ft²)			
Vendor guarantee on ESP efficiency (attach copy)			
Method of plate cleaning and frequency			
Flow rate of plate wash water to ESP (gpm), if applicable			
Temperature of plate wash water to ESP (°F), if applicable			
Source of plate wash water used for cleaning, if applicable			
Concentration (mg/l) of dissolved and suspended solids in plate wash water, if applicable			
Conditioning agents used and amounts (gpm), if applicable			
Amount of wastewater generated (gpd), if applicable			
Amount of wastewater recycled (gpd), if applicable			
Amount of wastewater disposed of (gpd), if applicable			

Method of wastewater disposal, if applicable Quantity of solid waste collected (lbs/yr) Quantity of solid waste recycled (lbs/yr) Quantity of solid waste disposed of (lbs/yr) Method of solid waste disposal

Nature and frequency of routine/preventive maintenance procedures

Problems experienced with control device within the last five years; how were problems solved? For example, periods when the process was shut down or excess emissions resulted because of control device problems.

List all monitoring methods used, including parameters and frequency Describe any plans to replace or upgrade ESP Comments
FORM J-2 AIR POLLUTION CONTROL

II. Scrubber

For each scrubber:	Scrubber 1	Scrubber 2	Scrubber 3
Process line(s) (identification name/number)			
Equipment/process(es) controlled. Include identification number listed on Forms B - F.			
Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.8949 latitude and - 77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php			
Latitude (decimal degrees, five decimal places)			
Longitude (decimal degrees, five decimal places)			
Stack of vent diameter (ft)			
Manufacturer and model			
Date of original installation			
Type (e.g., venturi, orifice)			
Gas flow rate to scrubber (acfm)			
Inlet gas temperature (°F)			
Outlet gas temperature (°F)			
Inlet grain loading (gr/dscf)			
Outlet grain loading (gr/dscf)			
Average stack opacity (%)			
Water flow rate to scrubber (gpm)			
Percent of scrubber water from recycled wastewater			
Source of scrubbing water and type of pretreatment. Substance(s) added as part of pretreatment and amount used (gpm)			
HAP composition of wastewater (mg/L)			

Concentration (mg/L) of dissolved and suspended solids in scrubbing water

Scrubbing water temperature (°F)

Liquid/gas ratio (gal/10³ acfm)

Pressure drop across scrubber (in. H_2O gauge)

Amount of wastewater generated (gpd)

Amount of wastewater recycled (gpd)

Amount of wastewater disposed of (gpd)

Method of wastewater disposal

Quantity of solid waste collected (lbs/yr)

Quantity of solid waste recycled (lbs/yr)

Quantity of solid waste disposed of (lbs/yr)

Method of solid waste disposal

Vendor guarantee on scrubber efficiency (attach copy)

Nature and frequency of preventive maintenance procedures

Problems experienced with control device within the last five years; how were problems solved? For example, periods when the process was shut down or excess emissions resulted because of control device problems.

List all monitoring methods used, including parameters and frequency

Plans to replace or upgrade scrubber

FORM J-3 AIR POLLUTION CONTROL

III. Mechanical Collector (Cyclone)

For each mechanical collector:	Mechanical Collect
Process line(s) (identification name/number)	
Equipment/process(es) controlled. Include identification number listed on Forms B - F.	
Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapl.ocationv3.php	
Latitude (decimal degrees, five decimal places)	
Longitude (decimal degrees, five decimal places)	
Stack or vent height (ft)	
Stack or vent diameter (ft)	
Manufacturer and model	
Date of original installation	
Type of mechanical collector	
Gas flow rate to collector (acfm)	
Inlet gas temperature (°F)	
Outlet gas temperature (°F)	
Inlet grain loading (gr/dscf)	
Outlet grain loading (gr/dscf)	
Average stack opacity (%)	
Overall pressure drop (in. H_2O gauge)	
Vendor guarantee on mechanical collector efficiency (attach copy)	
Quantity of solid waste collected (lbs/yr)	
Quantity of solid waste recycled (lbs/yr)	

Quantity of solid waste disposed of (lbs/yr)

Mechanical Collector 1	Mechanical Collector 2	Mechanical Collector 3

Method of solid waste disposal

Nature and frequency of preventive maintenance procedures

Problems experienced with control device within the last five years; how were problems solved? For example, periods when the process was shut down or excess emissions resulted because of control device problems.

List all monitoring methods used, including parameters and frequency

Plans to replace or upgrade mechanical collector Comments

FORM J-4 AIR POLLUTION CONTROL

IV. Fabric/Cartridge Filter

NOTE: Do not complete this form for particulate filters on paint spray booths. Spray booth filters should be reported on Form B-1, Section II, Particulate Filters.

For each fabric/cartridge filter (some of these questions apply only to fabric filters and not to cartridge filters; complete as appropriate for your situation):

Process line(s) (identification name/number)

Equipment/process(es) controlled. Include identification number listed on Forms B - F.

Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at

http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php

Latitude (decimal degrees, five decimal places) Longitude (decimal degrees, five decimal places) Stack or vent height (ft) Stack or vent diameter (ft) Manufacturer and model Date of original installation Number of compartments Number of bags/cartridges per compartment

Filter material and coatings applied (if any)

Fabric weight (oz/yd²)

Filter surface area (ft²)

Gas flow rate to filter (acfm)

Inlet gas temperature (°F)

Fabric Filter 1	Fabric Filter 2	Fabric Filter 3

Outlet gas temperature (°F)		
Inlet grain loading (gr/dscf)		
Outlet grain loading (gr/dscf)		
Average stack opacity (%)		
Overall pressure drop (in. H ₂ O gauge)		
Method of bag cleaning		
Frequency of bag cleaning		
Vendor guarantee on fabric filter/cartridge efficiency (attach copy)		
Quantity of solid waste collected (lbs/yr)		
Quantity of solid waste recycled (lbs/yr)		
Quantity of solid waste disposed (lbs/yr)		
Method of solid waste disposal		
Nature and frequency of preventive maintenance procedures		
Problems experienced with control device within the last five years; how were problems solved? For example, periods when the process was shut down or excess emissions resulted because of control device problems.		
List all monitoring methods used, including parameters and frequency		
Plans to replace or upgrade fabric filter		
Comments		

FORM J-5 AIR POLLUTION CONTROL

V. Thermal Incinerator

For each thermal incinerator

For each thermal incinerator	Thermal Incinerator 1	Thermal Incinerator 2	Thermal Incinerator 3
Process line(s) (identification name/number)			
Equipment/process(es) controlled. Include identification number listed on Forms B - F.			
Incinerator type			
Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php Latitude (decimal degrees, five decimal places) Longitude (decimal degrees, five decimal places) Stack or vent heinht (ft)			
Stack or vent diameter (ft)			
Manufacturer and model			
Date of original installation			
Fuel type: gas or oil			
Fuel consumption rate (BTU/hr)			
Inlet gas flow rate (acfm)			
Inlet gas temperature (°F)			
Chemical composition of combustibles in inlet gas			
Combustion chamber gas temperature (°F)			
Outlet gas temperature (°F)			
Inlet grain loading (gr/dscf)			
Outlet grain loading (gr/dscf)			
Average stack opacity (%)			
Excess air (%)			
Residence time (sec) at temperature (°F)			
Percent heat recovery			
Vendor guarantee on incinerator efficiency (attach copy)			

Nature and frequency of preventive maintenance procedures

Problems experienced with control device within the last five years; how were problems solved? For example, periods when the process was shut down or excess emissions resulted because of control device problems.

List all monitoring methods used, including parameters and frequency

Plans to replace or upgrade thermal incinerator

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se		

FORM J-6 AIR POLLUTION CONTROL

VI. Condenser

For each condenser:	Condenser 1	Condenser 2	Condenser 3
Process line(s) (identification name/number)			
Equipment/process(es) controlled. Include identification number listed on Forms B - F.			
Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php			
Latitude (decimal degrees, five decimal places)			
Longitude (decimal degrees, five decimal places)			
Stack of vent height (it) Stack or vent diameter (ft)			
Manufacturer and model			
Date of original installation			
Gas flow rate to condenser (acfm)			
Inlet gas temperature (°F)			
Organic compounds in inlet gas stream			
Name of organic compound			
Volume fraction			
Name of organic compond			
Volume fraction			
Name of organic compound			
Volume fraction			
Name of organic compound			
Volume fraction			
Name of organic compound			
Volume fraction			
Vendor guarantee on condenser efficiency (attach copy)			
Nature and frequency of preventive maintenance procedures			

Problems experienced with control device within the last five years; how were problems solved? For example, periods when the process was shut down or excess emissions resulted because of control device problems.		
List all monitoring methods used, including parameters and		
irequency		
Plans to replace or upgrade condenser		
Comments		

FORM J-7 AIR POLLUTION CONTROL

VII. Carbon Adsorber

For each carbon adsorber:	Carbon Adsorber 1	Carbon Adsorber 2	Carbon Adsorber 3
Process line(s) (identification name/number)			
Equipment/process(es) controlled. Include identification number listed on Forms B - F.			
Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php			
Latitude (decimal degrees, five decimal places)			
Longitude (decimal degrees, five decimal places)			
Stack of vent height (it) Stack of vent diameter (ft)			
Manufacturer and model			
Date of original installation			
Case flow rate to condensor (cofm)			
Organic compounds in inlet gas stream			
Name of organic compound			
Volume fraction			
Name of organic compond			
Volume fraction			
Name of organic compound			
Volume fraction			
Name of organic compound			
Volume fraction			
Name of organic compound			
Volume fraction			
Number of carbon beds			
Vendor guarantee on adsorber efficiency (attach copy)			
Nature and frequency of preventive maintenance procedures			

Problems experienced with control device within the last five years; how were problems solved? For example, periods when the process was shut down or excess emissions resulted because of control device problems.		
List all monitoring methods used, including parameters and frequency		
Plans to replace or upgrade adsorber		
Comments		

FORM J-8 AIR POLLUTION CONTROL

VIII. High Velocity Air Filter (HVAF)

For each HVAF:	HVAF 1	HVAF 2	HVAF 3
Process line(s) (identification name/number)			
Equipment/process(es) controlled. Include identification number listed on Forms B - F.			
Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at			
http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php			
Latitude (decimal degrees, five decimal places)			
Longitude (decimal degrees, five decimal places)			
Stack or vent height (ft)			
Stack or vent diameter (ft)			
Manufacturer and model			
Date of original installation			
Inlet gas flow rate (acfm)			
Inlet gas temperature (°F)			
Outlet gas temperature (°F)			
Inlet grain loading (gr/dscf)			
Outlet grain loading (gr/dscf)			
Average stack opacity (%)			
Water spray pressure (psig), if applicable			
Water spray rate (gpm), if applicable			
Filter face velocity (acfm/ft²) Maximum pressure drop across mat (in, H ₂ O gauge)			
Vendor quarantee on HVAF efficiency (attach conv)			
Method and frequency of filter mat advancement			
Amount of wastowater gapareted (and)			
Amount of wastewater generated (gpd)			

Amount of wastewater recycled (gpd) Amount of wastewater disposed (gpd) Method of wastewater disposal Quantity of solid waste collected (lbs/yr) Quantity of solid waste recycled (lbs/yr) Quantity of solid waste disposed (lbs/yr)

Method of solid waste disposal

Nature and frequency of preventive maintenance procedures

Problems experienced with control device within the last five years; how were problems solved? For example, periods when the process was shut down or excess emissions resulted because of control device problems.

List all monitoring methods used, including parameters and frequency

Plans to replace or upgrade HVAF

FORM J-9 AIR POLLUTION CONTROL

IX. Mist Eliminator

For each mist eliminator:	Mist Eliminator 1	Mist Eliminator 2	Mist Eliminator 3
Process line(s) (identification name/number)			
Equipment/process(es) controlled. Include identification number listed on Forms B - F.			
Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude			
http://www.gorissen.info/Pierre/maps/googleMapl.ocationv3.php			
Latitude (decimal degrees, five decimal places)			
Longitude (decimal degrees, five decimal places)			
Stack or vent height (feet)			
Stack or vent diameter (feet)			
Manufacturer and model			
Date of original installation			
Type of mist eliminator			
Gas flow rate to mist eliminator (acfm)			
Inlet gas temperature (°F)			
Outlet gas temperature (°F)			
Inlet grain loading (gr/dscf)			
Outlet grain loading (gr/dscf)			
Average stack opacity (%)			
Velocity in mist eliminator (ft/sec)			
Pressure drop (in. H ₂ O gauge)			
For chevron blade mist eliminators:			
Spacing between blades (in.)			
Washing frequency of blades			
For mesh pad mist eliminators:			

Number of pads or elements Thickness of pad (in.) or element dimensions

Density of pad, (lb/ft3)

Washing frequency of pad

Vendor guarantee on mist eliminator efficiency (attach copy)

Amount of wastewater generated (gpd)

Amount of wastewater recycled (gpd)

Amount of wastewater disposed (gpd)

Method of wastewater disposal

Quantity of solid waste collected (lbs/yr)

Quantity of solid waste recycled (lbs/yr)

Quantity of solid waste disposed (lbs/yr)

Method of solid waste disposal

Nature and frequency of preventive maintenance procedures

Problems experienced with control device within the last five years; how were problems solved? For example, periods when the process was shut down or excess emissions resulted because of control device problems.

List all monitoring methods used, including parameters and frequency

Plans to replace or upgrade mist eliminator

FORM J-10 AIR POLLUTION CONTROL

XI. Other

For each other air pollution control devide (APCD):	Other APCD 1	Other APCD 2	Other APCD 3
Process line(s) (identification name/number)			
Equipment/process(es) controlled. Include identification number listed on Forms B - F.			
Latitude and longitude must be reported in decimal degrees to five decimal places. For example, EPA Headquarters at 1200 Pennsylvania Ave, NW in Washington, D.C. is 38.89491 latitude and -77.02862 longitude at the front door. You may use the Satellite function of Google Maps to identify latitude/longitude information at http://www.gorissen.info/Pierre/maps/googleMapLocationv3.php			
Latitude (decimal degrees, five decimal places)			
Longitude (decimal degrees, five decimal places)			
Stack or vent height (ft)			
Stack or vent diameter (ft)			
Description			
Vendor guarantee on control efficiency			
List all monitoring methods used, including parameters and frequency			
Problems experienced with control device within the last five years; how were problems solved? For example, periods when the process was shut down or excess emissions resulted because of control device problems.			
Comments			

FORM K-1 COST

Complete this form as completely as possible using readily available information for each air pollution control device for which you completed Form J.

I. Air Pollution Control Device (APCD)

For each APCD: APCD ID Process Line ID

APCD 1	APCD 2	APCD 3

II. Capital Costs

Base year

APCD equipment purchase cost (list what equipment is included in this cost in Comments)

List the cost for each piece of auxiliary equipment for each APCD not included above

- Installation cost
- Land purchase cost
- Total capital cost
- Method of financing APCD
- Retrofit installation
- Field erected or modular

III. Annual Operating Costs

Base year

Annual cost of maintenance materials and replacement parts		
Raw materials costs		
Labor	•	•
(\$/yr) for each labor class		
(hr/hr) for each labor class		
Utilities		
Waste treatment and/or disposal		
Savings associated with heat recovery and wastewater and/or solid waste returned to process from APCD (or sold to another user)		
Indirect costs		

Other (specify in Comments)

Total annual operating cost		
Comments		