

June 2011

Does Not Contain Confidential Business Information

**RULE 30/TITLE V
PERMIT RENEWAL APPLICATION**

**MYLAN PHARMACEUTICALS INC.
PLANT ID# 061-00033
MORGANTOWN, WEST VIRGINIA**

PREPARED BY:

Mylan Pharmaceuticals Inc.

REDACTED VERSION

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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

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Charleston, WV 25304
Phone: (304) 926-0475

www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

Form with sections: 1. Name of Applicant (Mylan Pharmaceuticals, Inc.), 2. Facility Name or Location (Chestnut Ridge Road Plant Morgantown), 3. DAQ Plant ID No. (0 6 1 - 0 0 0 3 3), 4. Federal Employer ID No. (FEIN) (5 5 0 4 5 5 4 2 3), 5. Permit Application Type (Permit Renewal checked), 6. Type of Business Entity (Corporation checked), 7. Is the Applicant the: (Both checked), 9. Governmental Code (Privately owned and operated; 0 checked).

10. Business Confidentiality Claims

Does this application include confidential information (per 45CSR31)? Yes No

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.

11. Mailing Address		
Street or P.O. Box: P.O. Box 4310		
City: Morgantown	State: WV	Zip: 26504-4310
Telephone Number: (304) 599-2595	Fax Number: (304) 598-5471	

12. Facility Location		
Street: 781 Chestnut Ridge Road	City: Morgantown	County: Monongalia
UTM Easting: 589.6 km	UTM Northing: 4390.1 km	Zone: <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
Directions: I-79 to exit 155 follow signs for W.V.U. Follow US Route 19 to Coliseum. Turn left onto SR 705 for approximately 1.2 miles. Turn right to stay on SR 705 (Chestnut Ridge Road). Follow for approximately 0.6 miles to plant on left.		
Portable Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Is facility located within a nonattainment area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, for what air pollutants?	
Is facility located within 50 miles of another state? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, name the affected state(s). PA, OH, MD	
Is facility located within 100 km of a Class I Area ¹ ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, name the area(s). Dolly Sods Otter Creek	
If no, do emissions impact a Class I Area ¹ ? <input type="checkbox"/> Yes <input type="checkbox"/> No		
¹ 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.		

13. Contact Information		
Responsible Official: Dan Bashour		Title: Vice President & General Manager
Street or P.O. Box: P.O. Box 4310		
City: Morgantown	State: WV	Zip: 26504-4310
Telephone Number: (304) 599-2595	Fax Number: (304) 598-5471	
E-mail address:		
Environmental Contact: Craig Travis		Title: Director, Global Environmental Compliance
Street or P.O. Box: P.O. Box 4310		
City: Morgantown	State: WV	Zip: 26504-4310
Telephone Number: (304) 599-2595	Fax Number: (304) 598-5471	
E-mail address: craig.travis@mylan.com		
Application Preparer: Jessica Castillo		Title: Corporate EHS Project Engineer
Company: Mylan Pharmaceuticals Inc.		
Street or P.O. Box: P.O. Box 4310		
City: Morgantown	State: WV	Zip: 26504-4310
Telephone Number: (304) 599-2595	Fax Number: (304) 598-5471	
E-mail address: jessica.castillo@mylan.com		

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
Pharmaceutical Compounding and Formulating	Various Pharmaceutical Tablets and Capsules	325410	2834

Provide a general description of operations.

Mylan Pharmaceuticals Inc. (Mylan) is a batch pharmaceutical manufacturing company. Mylan purchases raw materials from suppliers and performs various quality control tests on the raw materials. The manufacturing plant mixes, compounds, and formulates pharmaceutical products. While a number of proprietary processes exist, the basic manufacturing process is as follows:

Weighing of Raw Materials -> Blending of Raw Materials -> Granulation of Blended Materials -> Dose Forming of Blended Materials -> Packaging of Dose Forms

Mylan also operates various laboratories at the Morgantown, WV business unit. QA/QC laboratories are operated at the Chestnut Ridge Road manufacturing site. R&D and Bio-Analytical laboratories are operated at the Collins Ferry Road research and development facility, which is also located in Morgantown (approximately two miles from the Chestnut Ridge Road manufacturing site).

Mylan's Chestnut Ridge Road facility is required to obtain a Title V Permit due to the potential to emit VOC at greater than 100 tons per year.

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.

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
<input type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input type="checkbox"/> NESHAP (45CSR15)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input checked="" type="checkbox"/> Section 111 NSPS	<input type="checkbox"/> Section 112(d) MACT standards
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqs.	<input checked="" type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input checked="" type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> CAIR NO _x Annual Trading Program (45CSR39)	<input type="checkbox"/> CAIR NO _x Ozone Season Trading Program (45CSR40)
<input type="checkbox"/> CAIR SO ₂ Trading Program (45CSR41)	

19. Non Applicability Determinations
<p>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.</p> <p>a. 45CSR27 – <i>To Prevent and Control the Emissions of Toxic Air Pollutants</i>. This rule does not apply to the facility because the facility currently does not have the potential to emit any such air pollutant in quantities equal to or greater than those set forth in this rule.</p> <p>b. 40 C.F.R. 60, Subpart Ka – <i>Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978 and Prior to July 23, 1984</i>. This subpart does not apply to the storage tanks at the facility because the tanks do not contain a petroleum liquid and the tanks have a capacity (8,200 gallons each) less than those tanks defined as an affected facility.</p>
<input checked="" type="checkbox"/> 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.

- c. 40 C.F.R. 60, Subpart Kb – *Standard of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.* This subpart does not apply to the storage tanks at the facility because the tanks were installed [in 1978] prior to July 23, 1984. Additionally, the tanks have a capacity (8,200 gallons each) less those tanks defined as an affected facility.
- d. 40 C.F.R. 63, Subpart F – *National Emissions Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry.* The facility does not manufacture any of the chemicals listed in Table I of Subpart F as a primary product..
- e. 40 C.F.R. 63, Subpart G – *National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater.* The facility is not subject to Subpart F, therefore, it is not subject to Subpart G of Part 63.
- f. 40 C.F.R. 63, Subpart FFFF – *National Standards for Miscellaneous Organic Chemical Manufacturing.* The facility does not emit hazardous air pollutants at major levels from its pharmaceutical manufacturing operations and is therefore not subject to this subpart.
- g. 40 C.F.R. 63, Subpart GGG – *National Standards for Pharmaceuticals Production.* The facility does not emit hazardous air pollutants from its pharmaceutical manufacturing operations and is therefore not subject to this subpart.
- h. 40 C.F.R. 63, Subpart DDDDD – *National Standards for Industrial, Commercial, and Institutional Boilers and Process Heaters.* The facility is a natural minor source of hazardous air pollutants and is therefore not subject to this subpart.
- i. 40 C.F.R. 64 - *Compliance Assurance Monitoring.* Emission limitations and continuous compliance determination methods are outlined in the permit to operate for pollutant-specific emission units with a control device that meets an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.
- j. 45CSR§2-5.1 – The facility burns natural gas only; therefore this section of 45CSR2 does not apply.
- k. 45CSR§10-4 – The facility’s manufacturing process source operations do not emit sulfur dioxide with the exception of trace amounts from natural gas combustion.
- l. 45CSR§10-5 & 45CSR§10-8 – The facility’s boilers burn only natural gas; therefore, they are exempt from the requirements of these sections of 45CSR10.
- m. 45CSR10A – *Testing, Monitoring, Recordkeeping and Reporting Requirements Under 45CSR10.* The facility’s boilers combust natural gas only; therefore, the facility is exempt from the requirements of this rule.

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).

1. **Open burning.** The open burning of refuse by any person, firm, corporate, association or public agency is prohibited except as noted in 45CSR§6-3.1. [45CSR§6-3.1.; R30-06100033-2006 MM05 3.1.1.; R13-2068N 3.1.1.]
2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible. [45CSR§6-3.2.; R30-06100033-2006 MM05 3.1.2.; R13-2068N 3.1.2.]
3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40CFR§61.145, 40CFR§61.148, and 40CFR§61.150. The permittee must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40CFR§61.145(b)(3)(i). A copy of this notice is required to be sent to the US EPA, the Division of Waste Management and the Bureau for Public Health – Environmental Health. [40CFR61 and 45CSR15; R30-06100033-2006 MM05 3.1.3.; R13-2068N 3.1.3.]
4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor at any location occupied by the public. [45CSR§4-3.1 State Enforceable only; R30-06100033-2006 MM05 3.1.4.; R13-2068N 3.1.4.]
5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown. [45CSR§13-10.5.; R13-2068N 3.1.5.]
6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11. [45CSR§11-5.2; R30-06100033-2006 MM05 3.1.5.; R13-2068N 3.1.6.]
7. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality. [W.Va. Code § 22-5-4(a)(14); R30-061-00033 MM05 3.1.6; R13-2068N 3.5.5.]
8. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.[40CFR83, Subpart F; R30-06100033-2006 MM05 3.1.7.]
9. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. §68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71. [40CFR68; R30-06100033-2006 MM05 3.1.8.]

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.)

1. **Open Burning Notification requirements:** Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible. [45CSR§6-3.2.; R30-06100033-2006 MM05 3.1.2.; R13-2068N 3.1.2.]
2. **Open Burning Notification requirements:** Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible. [45CSR§6-3.2.; R30-06100033-2006 MM05 3.1.2.; R13-2068N 3.1.2.]
3. **Asbestos Notification requirements:** The permittee must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40CFR§61.145(b)(3)(i). A copy of this notice is required to be sent to the US EPA, the Division of Waste Management and the Bureau for Public Health – Environmental Health. [40CFR61 and 45CSR 15; R30-06100033-2006 MM05 3.1.3.; R13-2068N 3.1.3.]
4. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken. [45CSR§30-5.1.c., 45CSR§4. State-Enforceable only; R30-06100033-2006 MM05 3.4.3.; R13-2068N 3.4.2.]
5. **Permanent Shutdown.** All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown. [45CSR§13-10.5.; R13-2068N 3.1.5.]
6. **Standby plan for reducing emissions.** Prepare standby plans as required in item 6 above.
7. **Emission Inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality. [W.Va. Code § 22-5-4(a)(14); R30-061-00033 MM05 3.1.6; R13-2068N 3.5.5.]
8. **Ozone-depleting substances.** Maintain records of maintenance activities conducted by contract personnel.
9. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. §68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71. [40CFR68; R30-06100033-2006 MM05 3.1.8.]

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.

10. The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment. [45CSR7-5.2.; R30-06100033-2006 MM05 3.1.9.]
11. Facility-wide emissions to the atmosphere of Hazardous Air Pollutants (HAPs) shall not exceed or equal 9.4 tons per year of any single HAP or 24.4 tons per year of any combination of HAPs. Yearly total HAPs will be determined using a 12-month rolling total.. [45CSR13, R30-06100033-2006 MM05 3.1.11.; R13-2068N 3.1.7.]
12. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment, identified with an asterisk, in Section 1.1. and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary. [45CSR§13-5.11.; R30-06100033-2006 MM05 3.1.12.; R13-2068N 4.1.1.]
13. When emissions on an annual basis of one or more of the greenhouse gases listed are greater than the de minimis amounts listed, all greenhouse gases emitted above the de minimis amounts shall be reported to the Secretary under 45CSR§42-4. [45CSR§42-3.1., State-Enforceable only; R30-06100033-2006 MM05 3.1.13.]
14. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement. [45CSR§30-4.3.h.1.B.; R30-06100033-2006 MM05 3.5.9.]
15. Due to unavoidable malfunction of equipment, emissions exceeding limits set forth in 45CSR7 may be permitted by the Director for periods not to exceed ten (10) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director. [45CSR§7-9.1.; R30-06100033-2006 MM05 3.1.10.]

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.)

10. Fugitive Dust Control Systems. The permittee shall maintain records indicating the use of any dust suppressants or any other suitable dust control measures applied at the facility. The permittee shall also inspect all fugitive dust control systems monthly to ensure that they are operated and maintained in conformance with their designs. The permittee shall maintain records of such inspections and of all scheduled and non-scheduled maintenance of such systems. These records shall be maintained on site for five (5) years from the record creation date, stating any maintenance or corrective actions taken as a result of the monthly inspections, and the times the fugitive dust control system(s) are inoperable and any corrective actions taken. [45CSR§30-5.1.c.; R30-06100033-2006 MM05 3.4.4.]

11. The facility shall monitor on a monthly and yearly basis facility-wide HAP usage. Yearly HAP calculations shall be based on a 12-month rolling total. [R30-06100033-2006 MM05 3.2.1.; R13-2068N 3.2.1.]

To demonstrate compliance with the facility-wide HAP limits, the permittee shall maintain monthly and yearly records of facility-wide HAP usage. The facility shall prepare monthly facility-wide calculations of the amount of each individual HAP emitted and the amount of aggregated HAPs emitted. Yearly HAP calculations shall be based on a 12-month rolling total. [R30-06100033-2006 MM05 3.4.5.; R13-2068N 3.4.3.]

12. Monitoring information. The permittee shall keep records of monitoring information that include the following: a. The date, place as defined in this permit and time of sampling or measurements; b. The date(s) analyses were performed; c. The company or entity that performed the analyses; d. The analytical techniques or methods used; e. The results of the analyses; and f. The operating conditions existing at the time of sampling or measurement. [45CSR§30-5.1.c.2.A.; R30-06100033-2006 MM05 3.4.1.; R13-2068N 4.2.1.]

Record of Maintenance of Air Pollution Control Equipment. For all pollution control equipment identified with an asterisk in Section 1.1., the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures. [R30-06100033-2006 MM05 3.4.6.; R13-2068N 4.2.2.]

Record of Malfunctions of Air Pollution Control Equipment. For all air pollution control equipment identified with an asterisk in Section 1.1., the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded: a. The equipment involved. b. Steps taken to minimize emissions during the event. c. The duration of the event. d. The estimated increase in emissions during the event. For each such case associated with an equipment malfunction, the additional information shall also be recorded. e. The cause of the malfunction. f. Steps taken to correct the malfunction. g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction. [R30-06100033-2006 MM05 3.4.7.; R13-2068N 4.2.3.]

13. Greenhouse Gas Reporting Requirements. When applicable, as determined in permit section 3.1., greenhouse gas emissions shall be reported pursuant to 45CSR§42-4. as follows: a. In accordance with a reporting cycle provided by the Secretary, affected sources shall report to the Secretary the quantity of all greenhouse gases emitted above *de minimis* amounts in the years specified by the Secretary. [45CSR§42-4.1., State-Enforceable only.] b. Affected sources shall only be required to report annual quantities of anthropogenic non-mobile source greenhouse gases emitted at the stationary source, and shall not be required to report biogenic emissions of greenhouse gases. [45CSR§42-4.2., State-Enforceable only.] c. Reports of greenhouse gas emissions submitted to the Secretary under 45CSR§42-4. shall be signed by a responsible official and shall include the following certification statement: "I, the undersigned, hereby certify that the data transmitted to the West Virginia Department of Environmental Protection is true, accurate, and complete, based upon information and belief formed after reasonable inquiry. [45CSR§42-4.5., State-Enforceable only; R30-06100033-2006 MM05 3.5.10.]

14. New applicable requirements. The permittee is responsible for notifying the Secretary and submitting an appropriate compliance schedule. [45CSR§30-4.3.h.1.B.; R30-06100033-2006 MM05 3.5.9.]

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

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

The following items are additional monitoring/testing/recordkeeping/reporting requirements listed in Mylan's Regulation 13 and/or Title V Operating Permits:

20. Facility-Wide Applicable Requirements (Continued)

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.)

15. Stack testing. As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.

b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.

c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15) and 45CSR13; R30-06100033-2006 MM05 3.3.1.; R13-2068N 3.3.1.]

16. Retention of records. The permittee shall maintain records of all information (including monitoring data, support information, reports, and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche. [R13-2068N 3.4.1.]

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)

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.)

17. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [45CSR§30-4.4 and 5.1.c.3.D; R30-06100033-2006 MM05 3.5.1.; R13-2068N 3.5.1.]
18. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31. [45CSR§30-5.1.c.3.E.; R30-06100033-2006 MM05 3.5.2.; R13-2068N 3.5.2.]
19. Except in the case of the electronic submittal requirement in 3.5.5, all notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, mailed first class or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:
- | | |
|-----------------------------|--|
| If to the DAQ: | If to the US EPA: |
| Director | Associate Director |
| WVDEP | Office of Enforcement and Permits Review |
| Division of Air Quality | (3AP12) |
| 601 57 th Street | U.S. Environmental Protection Agency |
| Charleston, WV 25304-2345 | Region III |
| Phone: 304/926-0475 | 1650 Arch Street |
| Fax: 304/926-0478 | Philadelphia, PA 19103-2029 |
- [R30-06100033-2006 MM05 3.5.3.; R13-2068N 3.5.3.]
20. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. [45CSR§30-8.; R30-06100033-2006 MM05 3.5.4.]
21. In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative. [R13-2068N 3.5.4.1.]
22. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The annual certification submitted to USEPA shall be forwarded by e-mail only to: R3_APD_Permits@epa.gov. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. [45CSR§30-5.3.e.; R30-06100033-2006 MM05 3.5.5.]

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)

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.)

23. Semi-annual monitoring reports. The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. [45CSR§30-5.1.c.3.A.; R30-06100033-2006 MM05 3.5.6.]

24. Deviations. a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:

1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.
2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Director immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary. [45CSR§30-5.1.c.3.B.]

[R30-06100033-2006 MM05 3.5.8.]

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

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

22. Inactive Permits/Obsolete Permit Conditions		
Permit Number	Date of Issuance	Permit Condition Number
R13-0757		
R13-2068	12/31/1996	
R13-2068A	10/30/1998	
R13-2068B	07/28/1999	
R13-2068C	03/05/2001	
R13-2068D	03/21/2001	
R13-2068E	05/13/2004	
R13-2068F	06/28/2005	
R13-2068G	11/08/2005	
R13-2068H	03/13/2006	
R13-2068I	05/24/2007	
R13-2068J	06/13/2007	
R13-2068K	01/05/2010	
R13-2068M	11/03/2010	
R13-2269	12/03/1998	
R13-2269A	12/18/1998	
R13-2269B	11/20/2000	
R13-2269C	03/05/2001	
R13-2269D	03/21/2001	
R30-0610033-1996	07/09/2001	
R30-0610033-1996 MM01	03/11/2005	
R30-0610033-1996 MM02	03/17/2006	
	/ /	
	/ /	
	/ /	

Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	81.1
Nitrogen Oxides (NO _x)	61.9
Lead (Pb)	
Particulate Matter (PM _{2.5}) ¹	76.76
Particulate Matter (PM ₁₀) ¹	76.76
Total Particulate Matter (TSP)	76.76
Sulfur Dioxide (SO ₂)	0.6
Volatile Organic Compounds (VOC)	156.1
Hazardous Air Pollutants²	Potential Emissions
Total HAPs	9.4 tpy of any single HAP or 24.4 tpy of any combination of HAPs
Regulated Pollutants other than Criteria and HAP	Potential Emissions
N/A	
¹ PM _{2.5} and PM ₁₀ are components of TSP. ² For 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 checked="" type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.
<input checked="" type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.
<input checked="" 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 checked="" type="checkbox"/>	4. Bathroom/toilet vent emissions.
<input checked="" type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.
<input checked="" 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 checked="" type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.
<input checked="" 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 checked="" type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input checked="" type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input checked="" 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 checked="" type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.
<input type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.
<input checked="" 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 checked="" 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> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<input type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input checked="" 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 checked="" type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input checked="" type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input checked="" type="checkbox"/>	26. Fire suppression systems.
<input checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input checked="" type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input checked="" 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 checked="" type="checkbox"/>	40. Ozone generators.
<input checked="" 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

24. Insignificant Activities (Check all that apply)	
	owners/operators must still get a permit if otherwise requested.)
<input checked="" 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 checked="" type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input checked="" type="checkbox"/>	51. Steam cleaning operations.
<input checked="" type="checkbox"/>	52. Steam leaks.
<input checked="" type="checkbox"/>	53. Steam sterilizers.
<input checked="" type="checkbox"/>	54. Steam vents and safety relief valves.
<input checked="" 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 checked="" 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 checked="" 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

<p>28. Certification of Truth, Accuracy and Completeness and Certification of Compliance</p> <p><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></p>	
<p>a. Certification of Truth, Accuracy and Completeness</p> <p>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.</p>	
<p>b. Compliance Certification</p> <p>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.</p>	
<p>Responsible official (type or print)</p>	
<p>Name: Dan Bashour</p>	<p>Title: Vice President and General Manager</p>
<p>Responsible official's signature:</p>	
<p>Signature: </p>	<p>Signature Date: <u>6/16/11</u></p>
<p><small>(Must be signed and dated in blue ink)</small></p>	

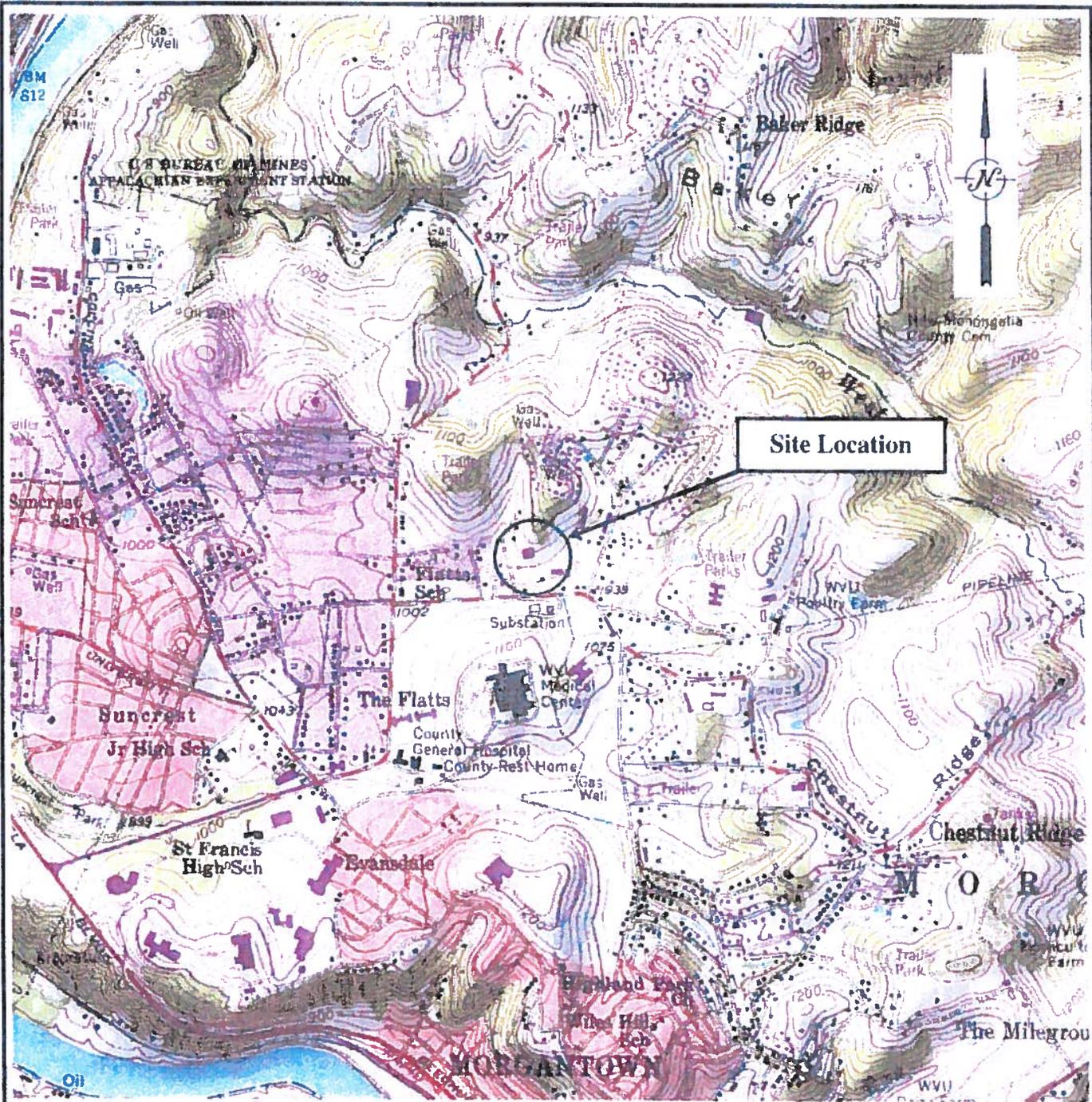
<p>Note: Please check all applicable attachments included with this permit application:</p>	
<input checked="" type="checkbox"/>	<p>ATTACHMENT A: Area Map</p>
<input checked="" type="checkbox"/>	<p>ATTACHMENT B: Plot Plan(s)</p>
<input checked="" type="checkbox"/>	<p>ATTACHMENT C: Process Flow Diagram(s)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

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.

APPLICATION FOR NSR PERMIT
AND
TITLE V PERMIT RENEWAL

Attachment A

MYLAN PHARMACEUTICALS INC.
PLANT ID# 061-00033
MORGANTOWN, WEST VIRGINIA



Reference:
 3-D TopoQuads © DeLorme,
 Yarmouth, Me 04096
 Source Data:
 7.5 Minute USGS
 Topographic Quadrangle

 Morgantown North, WV

Vicinity Map

 Scale 1" = 2000'

**Mylan
 Pharmaceuticals**

 Air Permit Application

APPLICATION FOR NSR PERMIT
AND
TITLE V PERMIT REVISION

Attachment B

MYLAN PHARMACEUTICALS INC.
PLANT ID# 061-00033
MORGANTOWN, WEST VIRGINIA

APPLICATION FOR NSR PERMIT
AND
TITLE V PERMIT RENEWAL

Attachment C

MYLAN PHARMACEUTICALS INC.
PLANT ID# 061-00033
MORGANTOWN, WEST VIRGINIA

Claim of Confidentiality Cover Document

Mylan Pharmaceuticals is hereby submitting this Claim of Confidentiality Cover Document pursuant to 45 CSR 31-3.3.b.

Company Name	Mylan Pharmaceuticals Inc.	Responsible Official	Dan Bashour	
Company Address	PO Box 4310	Confidential Information Designee in State of WV	Name	Craig Travis
	Morgantown, WV		Title	Director, Global Environmental Compliance
	26504-4310		Address	PO Box 4310
Person/Title Submitting Confidential Information	Jessica Castillo			Morgantown, WV 26504-4310
	Corporate EHS Project Engineer		Phone	304-599-2595
			Fax	304-598-5471

Reason for Submittal of Confidential Information:
Renewal Application for Rule 30 / Title V Operating Permit

Identification of Confidential Information	Rationale for Confidential Claim	Confidential Treatment Time Period
PFD – General Process Flow Diagram (Entire Diagram)	Business Confidential/Trade Secret Data is contained on PFD – General Process Flow Diagram, which would cause substantial harm to the business’s competitive position if disclosed (per 45 CSR 31, Section 4.1.e.1.) due to the manufacturing flow process details contained on the PFD. The information on the PFD qualifies for confidentiality protection from disclosure in accordance with the provisions of 45 CSR 31, Sections 4.1.a. through 4.1.e.	Permanently for all Claimed Confidential.

Responsible Official Signature:	
Responsible Official Title:	Vice President and General Manager
Date Signed:	6/10/11

NOTE: Must be signed and dated in **BLUE INK**

**Redacted Copy - Claim of Confidentiality
June 2011**

MYLAN PHARMACEUTICALS, INC.
CHESTNUT RIDGE ROAD PLANT
MORGANTOWN, WV

45CSR30 PERMIT RENEWAL APPLICATION
ATTACHMENT C

GENERAL PROCESS FLOW DIAGRAM

JUNE 2011

APPLICATION FOR NSR PERMIT
AND
TITLE V PERMIT RENEWAL

Attachment D

MYLAN PHARMACEUTICALS INC.
PLANT ID# 061-00033
MORGANTOWN, WEST VIRGINIA

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
1	None	1	Boiler 3: Natural gas boiler	6.27 MMBtu/hr	1987
2	None	2	Boiler 4: Natural gas boiler	1.5 MMBtu/hr	1987
3	None	3	Boiler 5: Natural gas boiler	6.00 MMBtu/hr	1991
4	None	4	Boiler 2: Natural gas boiler	1.18 MMBtu/hr	1974
6	None	6	Boiler 1: Natural gas boiler	3.34 MMBtu/hr	1968
7	None	7	Boiler 7: Natural gas boiler	6.99 MMBtu/hr	1997
8	None	8	Boiler 8: Natural gas boiler	6.99 MMBtu/hr	1997
9	None	9	Boiler 11: Natural gas boiler	2.07 MMBtu/hr	2000
9	None	009A	Boiler 12: Natural gas boiler	2.07 MMBtu/hr	2000
10	None	10	Boiler 15: Natural gas boiler	7 MMBtu/hr	2004
11	None	11	Boiler 2343: Natural gas boiler	21.0 MMBtu/hr	2005
12	None	12	Boiler 2344: Natural gas boiler	21.0 MMBtu/hr	2005
13	None	13	Boiler 2345: Natural gas boiler	21.0 MMBtu/hr	2005
14	None	14	Boiler 2674: Natural gas boiler	0.65 MMBtu/hr	2005
15	None	15	Boiler 2675: Natural gas boiler	0.65 MMBtu/hr	2005
210	CC EF169	210	Coating Pan 169	500 lb/load	1985
215	CC EF1390	215	Coating Pan 1390	750 lb/load	1999
220	CC EF186	220	Coating Pan 186	500 lb/load	1986
230	CC EF217	230	Coating Pan 217	500 lb/load	1987
240	CC EF99	240	Coating Pan 99	500 lb/load	1983
241	CC EF 4553	241	Coating Pan 4549	750 lb/load	2009
242	CC EF4101	242	Coating Pan 4027	245 lb/load	2008
243	CC EF4164	243	Coating Pan 3853	750 lbs/load	2008
244; 10008085	CC EF7674; RTO	244	Coating Pan 7552	750 lb/load	2010
245; 10008085	CC 8422; RTO	245	Coating Pan 8421	750 lb/load	2010
280	280 Rotoclone WS	Rooms 74-101 – 74-122, 74-129	Rotoclone 4	Varies	1992 (Rotoclone)
281	281 Rotoclone WS	Rooms 74-151, 74-153, 91-129, 91-130, 91-132, 91-134 – 91-137, 91-139, 91-229, 91-230, 91-232, 91-329, 91-330, 91-332, 91-334 – 91-337	Rotoclone 3	Varies	1991 (Rotoclone)
282	282 Rotoclone WS	Rooms 74-150, 74-152, 74-154, 74-159, 74-160, 74-161, 74-162, 74-212, 91-232, 91-233	Rotoclone 1	Varies	1982 (Rotoclone)

Emission Point ID¹	Control Device¹	Emission Unit ID¹	Emission Unit Description	Design Capacity	Year Installed/Modified
283	283 Rotoclone WS	Rooms 74-205 – 74-209, 99-217 – 99-219	Rotoclone 2	Varies	1982 (Rotoclone)
287	287 Rotoclone WS	Rooms BL209, BL211, BL214, BL304, BL306, BL307, BL309- BL314, BL316, BL402 – BL404, BL406- BL414, BL416	Rotoclone 6	Varies	1996
288	288 Rotoclone WS	Rooms BB101- BB103, BB 106, BB108- BB111, BB113- BB118, BB201- BB203, BB206- BB208, BB210- BB217, BB303, BB312	Rotoclone 5	Varies	1996
291	291 Rotoclone WS	Rooms 85-205A – 85-208A, 99-105, 99-114 – 99-122, 99-209, ORG201A – ORG204A	Rotoclone 7	Varies	1999
294	294 Rotoclone WS	Rooms BB112, 85-106, 85-108, 85-114, 85-115, 85-102, 85-104, 85-107, 85-110	Rotoclone 9	Varies	2003
295	295 Rotoclone WS	Rooms BL218, BL219	Rotoclone 10	Varies	2004
296	296 Rotoclone WS	Rooms NEX140, NEX142, NEX144, NEX146, NEX159 - NEX162	Rotoclone 2317	Varies	2005
297	297 Rotoclone WS	Rooms NEX139, NEX141, NEX143, NEX145, NEX152 - NEX158, NEX163, NEX164	Rotoclone 2318	Varies	2005
298	298 Rotoclone WS	Rooms NEX131 - NEX136, NEX138, NEX147, NEX148	Rotoclone 2319	Varies	2005
299	299 Rotoclone WS	Rooms NEX175, NEX177, NEX179, NEX181, NEX183	Rotoclone 2320	Varies	2005
300	300 Rotoclone WS	Rooms NEX176, NEX178, NEX180, NEX182, NEX186 - NEX189	Rotoclone 2321	Varies	2005

Emission Point ID¹	Control Device¹	Emission Unit ID¹	Emission Unit Description	Design Capacity	Year Installed/Modified
305	305 Rotoclone WS	Rooms NEX231, NEX232, NEX234, NEX275-NEX283, NEX286-NEX289	Rotoclone 2322	Varies	2005
306	306 Rotoclone WS	Rooms NEX211A- 217A	Rotoclone 2323	Varies	2005
307	307 Rotoclone WS	Rooms NEX372, NEX374, NEX376, NEX378, NEX380	Rotoclone 2324	Varies	2005
308	308 Rotoclone WS	Rooms NEX349, NEX362, NEX364, NEX366, NEX368, NEX369	Rotoclone 2325	Varies	2005
309	309 Rotoclone WS	Rooms NEX346, NEX355, NEX357, NEX359 - NEX361	Rotoclone 2326	Varies	2005
310	310 Rotoclone WS	Rooms NEX375, NEX377, NEX379, NEX381	Rotoclone 2327	Varies	2005
311	311 Rotoclone WS	Rooms NEX 216A, NEX217A, NEX535-NEX538	Rotoclone 2328	Varies	2005
312	312 Rotoclone WS	Rooms NEX321 - NEX330, NEX421 - NEX430	Rotoclone 2329	Varies	2005
313	313 Rotoclone WS	Rooms NEX303, NEX405 - NEX412	Rotoclone 2330	Varies	2005
314	314 Rotoclone WS	Rooms NEX468, NEX469, NEX472 - NEX480	Rotoclone 2331	Varies	2005
315	315 Rotoclone WS	Rooms NEX435 - NEX438, NEX413 - NEX416, NEX419	Rotoclone 2332	Varies	2005
316	316 Rotoclone WS	Rooms NEX464 - NEX467, NEX481, NEX482, NEX484 - NEX492	Rotoclone 2333	Varies	2005
317	317 Rotoclone WS	Rooms NEX305- NEX312, NEX316	Rotoclone 2334	Varies	2005
318	318 Rotoclone WS	Rooms NEX445B, NEX445C, NEX445D, NEX445E, NEX445F, NEX445G	Rotoclone 2335	Varies	2005

Emission Point ID ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/Modified
319	319 Rotoclone WS	Rooms NEX514, NEX516A-D, NEX522 -NEX524, NEX526, NEX528, NEX530, NEX535 - NEX538	Rotoclone 2336	Varies	2005
320	320 Rotoclone WS	Rooms NEX503, NEX505, NEX507, NEX509, NEX511, NEX513	Rotoclone 2337	Varies	2005
321	321 Rotoclone WS	Rooms NEX506, NEX508, NEX510, NEX512, NEX515	Rotoclone 2338	Varies	2005
533	CC EF527	533	Fluid Bed 527	Up to 575 Kg/Load	1991
534 10008085	CCEF473; RTO	534	Fluid Bed 473	Up to 250 Kg/Load	1997
535	CC EF1339	535	Fluid Bed 1339	Up to 575 Kg/Load	1997
536	CC EF1222	536	Fluid Bed 1222	Up to 250 Kg/Load	1997
537	CC EF1552	537	Fluid Bed 1552	Up to 575 Kg/Load	1997
538 10008085	CC EF1855; RTO	538	Fluid Bed 1855	Up to 250 Kg/Load	2002
571	CC EF2113	571	Fluid Bed 2113	Up to 575 Kg/Load	2004
572 10008085	CC EF2181; RTO	572	Fluid Bed 2181	Up to 250 Kg/Load	2004
573; 10008538	CC 3340; Absorber	573	Fluid Bed 2811	Up to 575 Kg/Load	2006
574 10008085	CC 3416; RTO	574	Fluid Bed 3287	Up to 250 Kg/Load	2006
575 10008085	CC 3643; RTO	575	Fluid Bed 3620	Up to 250 Kg/Load	2007
576 10008085	CC 3407; RTO	576	Fluid Bed 3426	Up to 575 Kg/Load	2007
577 10008085	CC 3881; RTO	577	Fluid Bed 3704	Up to 250 Kg/Load	2008
578 10008085	CC 3879; RTO	578	Fluid Bed 3705	Up to 575 Kg/Load	2008
579; 10008538	CC 4287; Absorber	579	Fluid Bed 4001	Up to 575 Kg/Load	2008
580 10008085	CC 10007482; RTO	580	Fluid Bed 7560	Up to 575 Kg/Load	TBD
581	CC TBD	581	Fluid Bed TBD	Up to 250 Kg/Load	TBD
582	CC TBD	582	Fluid Bed TBD	Up to 575 Kg/Load	TBD

Emission Point ID ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/Modified
260; 10008085	RTO	260	Oven 19	Varies	Prior to 1973
261; 10008085	RTO	261	Oven 18	Varies	Prior to 1973
262; 10008085	RTO	262	Oven 681	Varies	Prior to 1973
263; 10008085	RTO	263	Oven 682	Varies	Prior to 1973
10008085	None	10008085	Regenerative Thermal Oxidation	16.0 mmBtu/hr 3,070 lbs/hr	2010
10008538	None	10008538	Absorber	4,000 cfm	2010
EG01	None	EG01	Kohler 100 REZG Natural Gas Fired Emergency Generator	162 bph/1,800 rpm	2010
EG02	None	EG02	Kohler 100 REZG Natural Gas Fired Emergency Generator	162 bph/1,800 rpm	2011
301	None	301	IPA Storage Tank #1	8,200 gallons	1978
302	None	302	IPA Storage Tank #2	8,200 gallons	1978
303	None	303	Ethanol Storage Tank #3	8,000 gallons	2010
304	None	304	Ethanol Storage Tank #4	8,000 gallons	2010
N/A	None	N/A	Various Laboratory Equipment and Exhaust Hoods	N/A	Varies
N/A	None	N/A	Weighing, Compounding and Formulating equipment in production rooms that do not vent outside a production building	Varies	Varies
N/A	None	N/A	Class I or Class II CFC-containing Equipment Subject to 40 CFR Part 82 Subpart F	Varies	Varies

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.

APPLICATION FOR NSR PERMIT
AND
TITLE V PERMIT RENEWAL

Attachment E

MYLAN PHARMACEUTICALS INC.
PLANT ID# 061-00033
MORGANTOWN, WEST VIRGINIA

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: 007, 008, 010 Each boiler is identical and has identical requirements	Emission unit name: Boiler 007, Boiler 008, Boiler 010	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.):
 Boiler 007, 008 and 010 are water tube boilers manufactured by Bryan Boilers with design capacities of approximately 7,000,000 BTU/hr each. Boilers 007, 008 and 010 use natural gas to generate steam for plant humidification, process heat, hot water for space heater, and other energy demands as necessary.

Manufacturer: Bryan Boilers	Model number: 007: RV700-S-15-FDG 008: RV700-S-15-FDG 010: RV700-S-15-FDG	Serial number: 007: 78399 008: 78393 010: 91245
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Construction date:	Installation date: 007: 1997 008: 1997 010: 2004	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 7 MMBTU/hr per boiler

Maximum Hourly Throughput: 7,000 cubic feet natural gas per hour per boiler	Maximum Annual Throughput: 61,320,000 cubic feet natural gas per year per boiler	Maximum Operating Schedule: 24 hours/day, 7 days/week, 52 weeks/year
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Fuel Usage Data (fill out all applicable fields)

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

Maximum design heat input and/or maximum horsepower rating: 7,000,000 BTU/hr per boiler	Type and Btu/hr rating of burners: Webster natural gas burning
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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.
 Natural Gas: 7,000 cubic feet/hour per boiler; 61,320,000 cubic feet/year per boiler
 No secondary fuel

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	N/A	N/A	1,000 BTU/scf

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.59 each	2.58 each
Nitrogen Oxides (NO _x)	0.70 each	3.07 each
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	0.10 each	0.30 each
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)	0.10 each	0.10 each
Volatile Organic Compounds (VOC)	0.10 each	0.20 each
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Trace amounts from natural gas combustion		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A		
<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>Potential emissions derived from AP-42 Emission Factors, Fifth Edition, Volume I, Chapter I, Section 4: Natural Gas Combustion (7/98).</p> <p>Emissions listed in Permit R13-2068N</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.

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six-minute block average. [45CSR§2-3.1; R13-2068N 5.1.1.; R30-06100033-2006 MM05 4.1.1]

Compliance with the visible emission requirements of 45CSR2, subsection 3.1 (4.1.1.), shall be determined in accordance with 40 C.F.R. Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems approved by the Director. The Director may require the installation, calibration, maintenance and operation of continuous opacity monitoring systems and may establish policies for the evaluation of continuous opacity monitoring results and the determination of compliance with the visible emission requirements of 4.1.1. Continuous opacity monitors shall not be required on fuel burning units, which employ wet scrubbing systems for emission control. [45CSR§2-3.2; R13-2068N 5.1.2.; R30-06100033-2006 MM05 4.1.2.]

The maximum amount of natural gas to be burned by a single boiler (Emission Unit ID's 007, 008, 010) shall not exceed 7,000 ft³/hr or 61,320,000 ft³/yr. [R13-2068N 5.1.9.; R30-06100033-2006 MM05 4.1.3.]

Maximum emissions from each boiler (007, 008, 010) shall not exceed the following limits identified in the Emissions Data above. These values were based on the design of 7 MMBTU/hr. [R13-2068N 5.1.5, 5.1.6, 5.1.7.; R30-06100033-2006 MM05 4.1.4.]

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.)

The facility shall monitor the amount of natural gas used and the hours of operation for Boilers 007, 008, 010, 011, 012, and 013 on a monthly and yearly basis. To demonstrate compliance with the emission limits and natural gas usage limits, the permittee shall record for each boiler the monthly hours of operation, and the monthly fuel consumption. [45CSR16, 40 C.F.R. § 60.48c(g) (Subpart Dc); R13-2068N 5.2.2., 5.2.3., 5.4.1.; R30-06100033-2006 MM05 4.2.1.]

At such reasonable times as the Director may designate, the permittee shall conduct Method 9 emission observations for the purpose of demonstrating compliance with the opacity standards of 45CSR§2-3.1. Method 9 shall be conducted in accordance with 40 C.F.R. 60, Appendix A. [R13-2068N 5.2.1.; R30-06100033-2006 MM05 4.2.2.]

A record of each visible emission check shall be maintained on site for five (5) years from the record creation date. Such record shall include, but not be limited to, the date, time, name of emission unit, the applicable visible emissions requirement, the results of the check, what action(s), if any, was/were taken, and the name of the observer. [R13-2068N 5.4.2.; R30-06100033-2006 MM05 4.4.1.]

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: 011, 012, 013 Each boiler is identical and has identical requirements	Emission unit name: Boiler 011, Boiler 012, Boiler 013	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.):
 Boilers 011, 012, and 013 are water tube boilers manufactured by Bryan Boilers with design capacities of 21,000,000 BTU/hr each. Boilers 011, 012 and 013 use natural gas to generate steam for plant humidification, process heat, hot water for space heater, and other energy demands as necessary.

Manufacturer: Bryan Boilers	Model number: 011: RW-2100-S-150/15-FDG-LX 012: RW-2100-S-150/15-FDG-LX 013: RW-2011-S-150/15-FDG-LX	Serial number: 011: 03218 012: 93171 013: 93323
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Construction date:	Installation date: 011: 2005 012: 2005 013: 2005	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 21 MM BTU/hr per boiler

Maximum Hourly Throughput: 20,590 cubic feet natural gas per hour per boiler	Maximum Annual Throughput: 180.4 million cubic feet natural gas per year per boiler	Maximum Operating Schedule: 24 hours/day, 7 days/week, 52 weeks/year
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input checked="" type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating: 21,000,000 BTU/hr per boiler	Type and Btu/hr rating of burners: Webster low NOx natural gas burner
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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.
 Natural Gas: 20,590 cubic feet/hour per boiler; 180.4 million cubic feet/year per boiler
 No secondary fuel

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	N/A	N/A	1,020 BTU/scf

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.07 each	17.84 each
Nitrogen Oxides (NO _x)	2.06 each	9.02 each
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	0.20 each	0.86 each
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)	0.02 each	0.05 each
Volatile Organic Compounds (VOC)	0.21 each	0.92 each
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Trace amounts from natural gas combustion		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A		
<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>Potential emissions derived from AP-42 Emission Factors, Fifth Edition, Volume I, Chapter I, Section 4: Natural Gas Combustion (7/98).</p> <p>Emissions listed in Permit R13-2068N</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.

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six-minute block average. [45CSR§2-3.1; R13-2068N 5.1.1.; R30-06100033-2006 MM05 4.1.1]

Compliance with the visible emission requirements of 45CSR2, subsection 3.1 (4.1.1.), shall be determined in accordance with 40 C.F.R. Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems approved by the Director. The Director may require the installation, calibration, maintenance and operation of continuous opacity monitoring systems and may establish policies for the evaluation of continuous opacity monitoring results and the determination of compliance with the visible emission requirements of 4.1.1. Continuous opacity monitors shall not be required on fuel burning units, which employ wet scrubbing systems for emission control. [45CSR§2-3.2; R13-2068N 5.1.2.; R30-06100033-2006 MM05 4.1.2.]

The three (3) Bryan Steam Corporation boilers (Emission Unit ID's 011, 012, & 013) shall combust only natural gas fuel. The maximum amount of natural gas consumed by each boiler shall not exceed 20,590 ft³/hr and 180.4 million ft³/yr. [R13-2068N 5.1.10; R30-06100033-2006 MM05 4.1.5.]

Each of the three (3) 21.0 MMBtu/hr Bryan Steam Corporation boilers (Emission Unit ID's 011, 012, & 013) shall not exceed the emission rates identified in the Emissions Data above. These values were based on the design of 21 MMBTU/hr. [45CSR§2-4.1.b., 45CSR§10-3.3.f.; R13-2068N 5.1.3, 5.1.4., 5.1.8.; R30-06100033-2006 MM05 4.1.6.]

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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.)

The facility shall monitor the amount of natural gas used and the hours of operation for Boilers 007, 008, 010, 011, 012, and 013 on a monthly and yearly basis. To demonstrate compliance with the emission limits and natural gas usage limits, the permittee shall record for each boiler the monthly hours of operation, and the monthly fuel consumption. [45CSR16, 40 C.F.R. § 60.48c(g) (Subpart Dc); R13-2068N 5.2.2., 5.2.3., 5.4.1.; R30-06100033-2006 MM05 4.2.1.]

At such reasonable times as the Director may designate, the permittee shall conduct Method 9 emission observations for the purpose of demonstrating compliance with the opacity standards of 45CSR§2-3.1. Method 9 shall be conducted in accordance with 40 C.F.R. 60, Appendix A. [R13-2068N 5.2.1.; R30-06100033-2006 MM05 4.2.2.]

A record of each visible emission check shall be maintained on site for five (5) years from the record creation date. Such record shall include, but not be limited to, the date, time, name of emission unit, the applicable visible emissions requirement, the results of the check, what action(s), if any, was/were taken, and the name of the observer. [R13-2068N 5.4.2.; R30-06100033-2006 MM05 4.4.1.]

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

Note: Only a summary table was provided for the listed boilers due to their small design capacities.
Each listed boiler burns only natural gas.

Table E.1. Other Boiler Units

Emission Point ID	Emission Unit ID	Emission Unit Description	Fuel Type	Design Capacity	Manufacturer	Model Number	Serial Number	Year Installed
001	001	Boiler	Natural Gas	6.27 MMBtu/hr	Cleaver Brooks	CB.700-150	L-83187	1987
002	002	Boiler	Natural Gas	1.5 MMBtu/hr	Bryan	CL-150S-15-FDG	63579	1987
003	003	Boiler	Natural Gas	6.00 MMBtu/hr	Bryan	RV600-S-15-FDG	70831	1991
004	004	Boiler	Natural Gas	1.18 MMBtu/hr	Cleaver Brooks	CB700-100	I-58293	1974
006	006	Boiler	Natural Gas	3.34 MMBtu/hr	Carrier Air Conditioning Co.	None	6538105 X	1968
009	009	Boiler	Natural Gas	2.07 MMBtu/hr	Bryan	HECL 210-W-FDG-LH	83916	1999
009	009A	Boiler	Natural Gas	2.07 MMBtu/hr	Bryan	HECL 210-W-FDG	83923	1999
014	014	Boiler	Natural Gas	0.65 MMBtu/hr	Bryan	DR650-WT-FDG-335-AV-PH-IN	93037	2005
015	015	Boiler	Natural Gas	0.65 MMBtu/hr	Bryan	DR650-WT-FDG-335-AV-PH-IN	93038	2005

The following includes combined emissions from all units listed in Table E.1

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		8.73
Nitrogen Oxides (NO _x)		10.39
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		0.79
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		0.062
Volatile Organic Compounds (VOC)		0.57
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Trace amounts from natural gas combustion		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A		
<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>Potential emissions derived from AP-42 Emission Factors, Fifth Edition, Volume I, Chapter I, Section 4: Natural Gas Combustion (7/98).</p> <p>Emissions based on combined maximum design capacities for all boilers listed in Table E.1.</p>		

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: 210, 220, 230, 240, 243 Each coating pan is similar and has similar requirements	Emission unit name: Coating Pan 210, Coating Pan 220, Coating Pan 230, Coating Pan 240, Coating Pan 243	List any control devices associated with this emission unit: Cartridge Collector 210, Cartridge Collector 220, Cartridge Collector 230, Cartridge Collector 240, Cartridge Collector 243
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 For various products, the tablets may be coated with water based coating mixture in a rotary tumbler (coating pan) equipped with spray nozzles. Each coating pan uses heat to flash off the aqueous solvent. PM emissions from each coating pan are controlled by a cartridge collector.

Manufacturer: O'Hara Technologies and Thomas Engineering Inc.	Model number: Unknown	Serial number: Unknown
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Construction date:	Installation date: Coating Pan 210: 1985 Coating Pan 220: 1986 Coating Pan 230: 1987 Coating Pan 240: 1983 Coating Pan 243: 2008	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 500 lbs/load per coating pan (210, 220, 230, 240) and 750 lbs/load per coating pan (243)

Maximum Hourly Throughput: Varies	Maximum Annual Throughput: Varies	Maximum Operating Schedule: 18 hours/day, 5 days/week, 52 weeks/year
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Fuel Usage Data (fill out all applicable fields)

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

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

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.
 n/a

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)	0.4 pph each (210, 220, 230, 240), 0.9 pph (243)	1.2 tpy each (210, 220, 230, 240), 2.08 tpy (243)
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
n/a		

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.).

Maximum annual material process throughput multiplied by emission factor based on filter study and control device efficiency.

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.

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation, which is greater than twenty (20) percent opacity. [45CSR§7-3.1.; R13-2068N 8.1.1.; R30-06100033-2006 MM05 7.1.1.]

No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A found at the end of 45CSR7. Based on the process weight rates for the Coating Pans (excluding Emission Unit ID No. 215, 241, 242, 243, 244, and 245), 333 pounds per hour each, the corresponding allowable particulate matter emission rate is 0.4 pounds per hour each. Based on the process weight rates for Coating Pans 243, 750 pounds per hour, the corresponding allowable particulate matter emission rate is 0.9 pounds per hour. [45CSR§7-4.1.; R30-06100033-2006 MM05 7.1.2.]

Permit Shield

Applicable Requirements (continued)

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.)

Visible emissions monitoring shall be conducted initially at least once per month for all emission points subject to opacity limitations. After three consecutive monthly readings in which no visible emissions are observed from any of the subject emission points, those emission points will be allowed to conduct visible emissions checks once per calendar quarter. If visible emissions are observed during a quarterly monitoring from an emission point(s), then that emission point(s) with observed emissions or opacity shall be required to revert to monthly monitoring. Any emission point that has reverted to monthly monitoring shall be allowed to again conduct quarterly visible emissions checks only after three consecutive monthly readings in which no visible emissions are observed from the subject emission point.

These visible emission checks shall be conducted in accordance with 40 CFR 60, Appendix A, Method 22 during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions. If sources of visible emissions are identified during the survey, or at any other time, the permittee shall conduct a 40 CFR 60, Appendix A, Method 9 evaluation within twenty four (24) hours. A Method 9 evaluation shall not be required if the visible emissions condition is corrected within twenty four (24) hours from the time the visible emission condition was identified and the unit is operated at normal operating conditions. [R13-2068N 8.2.1.; R30-06100033-2006 MM05 7.2.1.]

For the purposes of demonstrating compliance with the minimum cartridge collection efficiency as given under 7.1.6.c, the permittee shall: a. Install, maintain, and operate the cartridge collectors consistent with safety and good air pollution control practices for minimizing emissions, and shall follow all manufacture's recommendations concerning control device maintenance and performance. b. Conduct a weekly visual inspection of the cartridge, cartridge connections, and dust hoppers of each cartridge collector, in order to ensure proper operation of cartridge collectors. Records shall be maintained on site for five (5) years from the record creation date. Records shall state the date and time of each cartridge collector inspection, the inspection results, and corrective actions taken, if any. c. Either conduct representative performance testing, pursuant to the performance testing procedures as outlined under 3.3.1. of this permit, on the cartridge collectors to determine a minimum collection efficiency or produce a vendor guarantee stating that the cartridge collectors (or associated filters) will meet a minimum collection efficiency of 95%. [R13-2068N 8.2.2.; R30-06100033-2006 MM05 7.2.2.]

Records of weekly inspections conducted on the cartridge collector shall be maintained on site for five (5) years from the record creation date. Records shall state the date and time of each cartridge collector inspection, the inspection results, and corrective actions taken, if any. [R13-2068N 8.4.1.; R30-06100033-2006 MM05 7.4.1.]

The permittee shall maintain a record of all solvents used in the coating pans and keep a copy of the associated MSDS to verify that the solvents did not contain any constituent HAPs. [R13-2068N 7.4.2.; R30-06100033-2006 MM05 7.4.2.]

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: 215, 241, 242, 244, 245 Each coating pan is similar and has similar requirements	Emission unit name: Coating Pan 215, Coating Pan 241, Coating Pan 242, Coating Pan 244, Coating Pan 245	List any control devices associated with this emission unit: Cartridge Collector 1390 (215), Cartridge Collector 4553 (241), Cartridge Collector 4101 (242), Cartridge Collector 7674 and RTO (244), Cartridge Collector 8422 and RTO (245)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 For various products, the tablets may be coated with water based coating mixture in a rotary tumbler (coating pan) equipped with spray nozzles. Each coating pan uses heat to flash off the aqueous solvent. PM emissions from each coating pan are controlled by a cartridge collector. VOC emissions from Coating Pans 244 and 245 are controlled by an RTO and are also authorized to admit to atmosphere (R30-06100033-2006 MM06 and R13-20680 Application).

Manufacturer: O'Hara Technologies and Thomas Engineering Inc.	Model number: Unknown	Serial number: Unknown
Construction date:	Installation date: Coating Pan 215: 1999 Coating Pan 241: 2009 Coating Pan 242: 2008 Coating Pan 244: 2010 Coating Pan 245: 2010	Modification date(s):

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 750 lbs/load per coating pan (215, 241, 244, 245) and 245 lbs/load (242)

Maximum Hourly Throughput: Varies	Maximum Annual Throughput: Varies	Maximum Operating Schedule: 18 hours/day, 5 days/week, 52 weeks/year
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating: n/a	Type and Btu/hr rating of burners: n/a
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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.
 n/a

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)	0.56 (215), 0.84 each (241, 244, 245), 0.28 (242)	8.32 tpy total
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	396.9 pph each or 7.94 pph each with RTO (244, 245)	5 tpy total for all coating pans (241, 242, 244, 245)
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
n/a		

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.).

Maximum annual material process throughput multiplied by emission factor based on filter study and control device efficiency.

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.

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation, which is greater than twenty (20) percent opacity. [45CSR§7-3.1.; R13-2068N 8.1.1.; R30-06100033-2006 MM05 7.1.1.]

Particulate matter emissions from the Coating Pan, venting through a cartridge collector (215, 241, 242, 244, 245) at Emission Point ID No. 215, 241, 242, 244, and 245, shall not exceed the emission rates identified in the Emissions Data above. [45CSR§7-4.1.; R13-2068N 8.1.3.; R30-06100033-2006 MM05 7.1.3.]

Maximum hourly volatile organic compound emissions to the atmosphere from the Coating Pans shall not exceed: a. 396.9 lb/hr for each coating pan unit if not venting exhaust to the RTO for the purpose of controlling VOC emissions. b. 7.94 lb/hr (as emitted from the RTO) each for Coating Pans 244 and 245 if venting exhaust to the RTO for the purpose of controlling VOC emissions. [R13-2068O 8.1.4. (Application); R30-06100033-2006 MM06 (Application)]

Maximum total combined annual volatile organic compound emissions to the atmosphere from the Coating Pans shall not exceed 5.0 tons/year. [R13-2068N 8.1.5.; R30-06100033-2006 MM05 7.1.5.]

The coating pans shall operate according to the following requirements: a. The aggregate dry material loading of each coating pan shall not exceed the following values: (1) Coating Pan 215: 750 pound/load; (2) Coating Pan 241: 750 pound/load; (3) Coating Pan 242: 245 pound/load; (4) Coating Pan 244: 750 pound/load; (5) Coating Pan 245: 750 pound/load. b. The annual aggregate dry material loading of all coating pans shall not exceed 11,000,000 pounds on a rolling yearly total basis. c. Cartridge collectors shall be used at all times on each coating pan to control particulate matter emissions. Each collector shall, at a minimum, achieve a collection efficiency of 95%. d. The solvent spray rate processed in coating pans 241, 242, 244, and 245 shall not exceed 3,000 grams-VOC/minute in each coating pan. e. No VOC-containing solvents shall be processed in coating pan 215. f. Coating Pans 244 and 245 shall have the capability of directing exhaust to the RTO for control of VOCs or emitting directly to atmosphere. g. No HAP-containing solvents shall be processed in any coating pan. [R13-2068N 8.1.6.; R30-06100033-2006 MM05 7.1.6. (Section f is part of R13-2068O and R30-06100033-2006 MM06 Application)]

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.)

Visible emissions monitoring shall be conducted initially at least once per month for all emission points subject to opacity limitations. After three consecutive monthly readings in which no visible emissions are observed from any of the subject emission points, those emission points will be allowed to conduct visible emissions checks once per calendar quarter. If visible emissions are observed during a quarterly monitoring from an emission point(s), then that emission point(s) with observed emissions or opacity shall be required to revert to monthly monitoring. Any emission point that has reverted to monthly monitoring shall be allowed to again conduct quarterly visible emissions checks only after three consecutive monthly readings in which no visible emissions are observed from the subject emission point.

These visible emission checks shall be conducted in accordance with 40 CFR 60, Appendix A, Method 22 during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions. If sources of visible emissions are identified during the survey, or at any other time, the permittee shall conduct a 40 CFR 60, Appendix A, Method 9 evaluation within twenty four (24) hours. A Method 9 evaluation shall not be required if the visible emissions condition is corrected within twenty four (24) hours from the time the visible emission condition was identified and the unit is operated at normal operating conditions. [R13-2068N 8.2.1.; R30-06100033-2006 MM05 7.2.1.]

Applicable Requirements (continued)

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. (continued)

For the purposes of demonstrating compliance with the minimum cartridge collection efficiency as given under 7.1.6.c, the permittee shall: a. Install, maintain, and operate the cartridge collectors consistent with safety and good air pollution control practices for minimizing emissions, and shall follow all manufacture's recommendations concerning control device maintenance and performance. b. Conduct a weekly visual inspection of the cartridge, cartridge connections, and dust hoppers of each cartridge collector, in order to ensure proper operation of cartridge collectors. Records shall be maintained on site for five (5) years from the record creation date. Records shall state the date and time of each cartridge collector inspection, the inspection results, and corrective actions taken, if any. c. Either conduct representative performance testing, pursuant to the performance testing procedures as outlined under 3.3.1. of this permit, on the cartridge collectors to determine a minimum collection efficiency or produce a vendor guarantee stating that the cartridge collectors (or associated filters) will meet a minimum collection efficiency of 95%. [R13-2068N 8.2.2.; R30-06100033-2006 MM05 7.2.2.]

For the purposes of demonstrating compliance with maximum dry material loading set forth in 7.1.6.a., the permittee shall monitor and record the total dry material per load for each coating pan. This requirement may be waived if the permittee is able to demonstrate that the maximum reasonable design capacity of each coating pan is equal or less than the maximum load given under 7.1.6.a. or if the permittee is able to demonstrate that the maximum loading based on product formulations is equal or less than the maximum load given under 7.1.6.a. [R13-2068N 8.2.3.; R30-06100033-2006 MM05 7.2.3.]

For the purposes of demonstrating compliance with maximum annual aggregate dry material loading set forth in 7.1.6.b., the permittee shall monitor and record the aggregate monthly and rolling twelve month total amount of dry material loaded into the coating pans. [R13-2068N 8.2.4.; R13-06100033-2006 MM05 7.2.4.]

For the purposes of demonstrating compliance with maximum annual VOC emission limit set forth in 7.1.5, the permittee shall: a. Monitor and record the aggregate monthly and rolling twelve month total amount of VOCs in pounds used in coating pans 241, 242, and 244. b. Monitor and record the aggregate monthly and rolling twelve month total amount of VOCs in pounds used in Coating Pans 244 and 245 when each bead is and is not venting exhaust to the RTO for the purpose of controlling VOCs. c. Calculate and record the monthly and rolling twelve month aggregate VOC emissions from all coating pans by summing the following: (1) The total amount of VOCs in pounds used in each coating pan with the exception of Coating Pans 244 and 245. (2) The total amount of VOCs in pounds used in Coating Pans 244 and 245 when not venting exhaust to the RTO for the purpose of controlling VOCs. (3) The total amount of VOCs used in Coating Pans 244 and 245 when venting exhaust to the RTO for the purpose of controlling VOCs. Based on compliance with Requirement 8.1.7. of the permit, the permittee may apply a VOC destruction efficiency of 98% to the amount of VOCs used in Coating Pans 244 and 245 when venting exhaust to the RTO for the purpose of controlling VOCs. [R13-2068O 8.2.5. (Application); R30-06100033-2006 MM06 (Application)]

Records of weekly inspections conducted on the cartridge collector shall be maintained on site for five (5) years from the record creation date. Records shall state the date and time of each cartridge collector inspection, the inspection results, and corrective actions taken, if any. [R13-2068N 8.4.1.; R30-06100033-2006 MM05 7.4.1.]

The permittee shall maintain a record of all solvents used in the coating pans and keep a copy of the associated MSDS to verify that the solvents did not contain any constituent HAPs. [R13-2068N 7.4.2.; R30-06100033-2006 MM05 7.4.2.]

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

<p>Emission unit ID number: 533, 535, 537, 571, 573, 576, 578, 579, 580, 582</p> <p>Each fluid bed is identical with identical requirements.</p>	<p>Emission unit name: Fluid Bed 533, Fluid Bed 535, Fluid Bed 537, Fluid Bed 571, Fluid Bed 573, Fluid Bed 576, Fluid Bed 578, Fluid Bed 579, Fluid Bed 580, Fluid Bed 582</p>	<p>List any control devices associated with this emission unit: Cartridge Collector (CC) 527 (533), CC 1339 (535), CC 1552 (537), CC 2113 (571); CC 3340 & Absorber 10008538 (573); CC 3407 & RTO 10008085 (576); CC 3879 & RTO 10008085 (578); CC 4287 & Absorber 10008538 (579); CC 10007482 & RTO 10008085 (580); CC TBD (582)</p>
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
The fluid bed equipment is used to provide a proper granulation of the pharmaceutical compounds. Powders are blended and dried within one unit. Each fluid bed is equipped with an internal filter for powder product recovery purposes. In addition to the integral filter, each fluid bed is equipped with a cartridge collector on the process emission vents. VOC emissions are controlled by a regenerative thermal oxidizer (RTO) for Fluid Beds 576, 578, and 580 and a water absorber for Fluid Beds 573 and 579 (included in R13-2068O/R13-06100033-2006 MM06 Application). Fluid Beds connected to the RTO or Absorber are authorized to emit to the atmosphere.

<p>Manufacturer: Vector Corporation</p>	<p>Model number: FL - 300</p>	<p>Serial number: Unknown</p>
<p>Construction date:</p>	<p>Installation date: 533: 1991; 535: 1997; 537: 1997; 571: 2004; 573: 2006; 576: 2007; 578: 2008; 579: 2008; 580: 2010; 582: Fall 2011</p>	<p>Modification date(s):</p>

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 575 kg/load per fluid bed (R13-2068O/R30-06100033-2006 MM06 Application)

<p>Maximum Hourly Throughput: Varies</p>	<p>Maximum Annual Throughput: Varies</p>	<p>Maximum Operating Schedule: 18 hours/day, 7 days/week, 50 weeks/year</p>
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Fuel Usage Data (fill out all applicable fields)

<p>Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired</p>
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<p>Maximum design heat input and/or maximum horsepower rating: n/a</p>	<p>Type and Btu/hr rating of burners: n/a</p>
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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.
n/a

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)	0.1 each	0.1 each
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	529.2 pph each or 10.59 pph each with RTO (576,578, 580) or 26.46 pph each with Absorber (573, 579)	99 tpy total for all fluid beds (533-538, 571-582) as of June 1, 2011; 94 tpy total for all fluid beds (533-538, 571-582) as of September 1, 2011 (proposed in R13-2068O/R30-06100033-2006 MM06 Application)
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
n/a		

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.).

Emissions based on operating design within processing capabilities incorporating control device efficiencies.

Emissions listed in Permit R13-2068N, R30-06100033-2006 MM05 and R13-2068O/R30-06100033-2006 MM06 modification application which includes the addition of the absorber as a control device for 573 and 579.

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.

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation, which is greater than twenty (20) percent opacity. [45CSR§7-3.1.; R13-2068N 6.1.1.; R30-06100033-2006 MM05 5.1.1.]

Maximum PM emissions from each Fluid Bed to the atmosphere shall not exceed 0.1 pounds per hour and 0.1 tons per year. [45CSR § 7-4.1.; R13-2068N 6.1.3.; R30-06100033-2006 MM05 5.1.2.]

The fluid beds shall operate according to the following requirements: a. The aggregate dry material loading of the fluid bed (excluding times of tablet coating in a fluid bed) shall not exceed the following limits: (1) Fluid Beds 534, 536, 538, 572, 574, 575, 577: 154 250 kg/load (2) Fluid Beds 533, 535, 537, 571, 573, 576, 578, 579, 580, 581, 582: 550 575 kg/load b. The annual aggregate dry material loading of all fluid beds shall not exceed 99,000,000 pounds on a rolling yearly total basis. c. Cartridge collectors shall be used at all times on each fluid bed to control particulate matter emissions. Each collector shall, at a minimum, achieve a collection efficiency of 95%. d. The spray rate used in each fluid bed shall not exceed 4 kilograms-VOC/minute. e. Fluid Beds 534, 538, 572, 574 – 578, and 580 shall have the capability of directing exhaust to the RTO for control of VOCs or emitting directly to atmosphere. f. Fluid Beds 573 and 579 shall have the capability of directing exhaust to the absorber for control of VOCs or emitting directly to atmosphere. g. No HAP-containing solvents shall be processed in any fluid bed. [R13-2068N 6.1.6.; R30-06100033-2006 MM05 5.1.3. (Section f is part of R13-2068O and R30-06100033-2006 MM06 Application)]

Maximum hourly VOC emissions to the atmosphere from each Fluid Bed shall not exceed: a. 529.2 lb/hr for each fluid bed if not venting exhaust to the RTO or absorber for the purpose of controlling VOC emissions. b. 10.59 lb/hr (as emitted from the RTO) each for Fluid Beds 534, 538, 572, 574 – 578, and 580 if venting exhaust to the RTO for the purpose of controlling VOC emissions. c. 26.46 lb/hr (as emitted from the absorber) each for Fluid Bed 573 and 579 if venting exhaust to the absorber for the purpose of controlling VOC emissions. [R13-2068N 6.1.4.; R13-06100033-2006 MM05 5.1.4. (Section c is part of R13-2068O and R30-06100033-2006 MM06 Application)]

Maximum total combined annual VOC emissions to the atmosphere from the Fluid Beds shall not exceed: a. 110.0 tons/year, or b. 99.0 tons/year as of June 1, 2011, or c. 94.0 tons/year as of September 1, 2011. [R13-2068N 6.1.5.; R30-06100033-2006 MM05 5.1.5. (Section c is part of R13-2068O and R30-06100033-2006 MM06 Application)]

Permit Shield

Applicable Requirements (continued)

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.)

For the purposes of demonstrating compliance with the minimum cartridge collection efficiency as given under 5.1.3.c, the permittee shall: a. Install, maintain, and operate the cartridge collectors consistent with safety and good air pollution control practices for minimizing emissions, and shall follow all manufacture's recommendations concerning control device maintenance and performance. b. Conduct a weekly visual inspection of the cartridge, cartridge connections, and dust hoppers of each cartridge collector, in order to ensure proper operation of cartridge collectors. Records shall be maintained on site for five (5) years from the record creation date. Records shall state the date and time of each cartridge collector inspection, the inspection results, and corrective actions taken, if any. c. Either conduct representative performance testing, pursuant to the performance testing procedures as outlined under 3.3.1. of this permit, on the cartridge collectors to determine a minimum collection efficiency or produce a vendor guarantee stating that the cartridge collectors (or associated filters) will meet a minimum collection efficiency of 95%. [R13-2068N 6.2.2.; R30-06100033-2006 MM05 5.2.1.]

Visible emissions monitoring shall be conducted initially at least once per month for all emission points subject to opacity limitations. After three consecutive monthly readings in which no visible emissions are observed from any of the subject emission points, those emission points will be allowed to conduct visible emissions checks once per calendar quarter. If visible emissions are observed during a quarterly monitoring from an emission point(s), then that emission point(s) with observed emissions or opacity shall be required to revert to monthly monitoring. Any emission point that has reverted to monthly monitoring shall be allowed to again conduct quarterly visible emissions checks only after three consecutive monthly readings in which no visible emissions are observed from the subject emission point.

These visible emission checks shall be conducted in accordance with 40 CFR 60, Appendix A, Method 22 during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions. If sources of visible emissions are identified during the survey, or at any other time, the permittee shall conduct a 40 CFR 60, Appendix A, Method 9 evaluation within twenty four (24) hours. A Method 9 evaluation shall not be required if the visible emissions condition is corrected within twenty four (24) hours from the time the visible emission condition was identified and the unit is operated at normal operating conditions. [R13-2068N 6.2.1.; R30-06100033-2006 MM05 5.2.2.]

For the purposes of demonstrating compliance with maximum dry material loading set forth in 5.1.3.a., the permittee shall monitor and record the total dry material per load for each fluid bed. This requirement may be waived if the permittee is able to demonstrate that the maximum reasonable design capacity of each fluid bed is equal or less than the maximum load given under 5.1.3.a. or if the permittee is able to demonstrate that the maximum loading based on product formulations is equal or less than the maximum load given under 5.1.3.a. [R13-2068N 6.2.3.; R30-06100033-2006 MM05 5.2.3.]

For the purposes of demonstrating compliance with maximum annual aggregate dry material loading set forth in 5.1.3.b., the permittee shall monitor and record the aggregate monthly and rolling twelve month total amount of dry material into the fluid beds. [R13-2068N 6.2.4.; R30-06100033-2006 MM05 5.2.4.]

Applicable Requirements (continued)

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. (continued)

For the purposes of demonstrating compliance with maximum annual VOC emission limit set forth in 5.1.5, the permittee shall: a. Monitor and record the aggregate monthly and rolling twelve month total amount of VOCs in pounds used in each fluid bed with the exception of Fluid Beds 534, 538, 572, and 574 – 580. b. Monitor and record the aggregate monthly and rolling twelve month total amount of VOCs in pounds used in Fluid Beds 534, 538, 572, 574 – 578, and 580 when each bed is and is not venting exhaust to the RTO for the purpose of controlling VOCs. c. Monitor and record the aggregate monthly and rolling twelve month total amount of VOCs in pounds used in Fluid Beds 573 and 579 when each bed is and is not venting exhaust to the absorber for the purpose of controlling VOCs. d. Calculate and record the monthly and rolling twelve month aggregate VOC emissions from all fluid beds by summing the following: (1) The total amount of VOCs in pounds used in each fluid bed with the exception of Fluid Beds 534, 538, 572, and 574 – 580. (2) The total amount of VOCs in pounds used in Fluid Beds 534, 538, 572, 574 – 578, and 580 when not venting exhaust to the RTO for the purpose of controlling VOCs. (3) The total amount of VOCs in pounds used in Fluid Beds 573 and 579 when not venting exhaust to the absorber for the purpose of controlling VOCs. (4) The total amount of VOCs used in Fluid Beds 534, 538, 572, 574 – 578, and 580 when venting exhaust to the RTO for the purpose of controlling VOCs. Based on compliance with Requirement 8.1.7 of this permit, the permittee may apply a VOC destruction efficiency of 98% to the amount of VOCs used in Fluid Beds 534, 538, 572, 574 – 578, and 580 when venting exhaust to the RTO for the purpose of controlling VOCs. (5) The total amount of VOCs used in Fluid Beds 573 and 579 when venting exhaust to the absorber for the purpose of controlling VOCs. Based on compliance with Requirement 11.1.3. of this permit, the permittee may apply a VOC destruction efficiency of 95% to the amount of VOCs used in Fluid Beds 573 and 579 when venting exhaust to the absorber for the purpose of controlling VOCs. [R13-2068N 6.2.5.; R30-06100033-2006 MM05 5.2.5. (Sections 5.2.5.c., 5.2.5.d.(3)., and 5.2.5.d.(5) are part of R13-2068O and R30-06100033-2006 MM06 Application)]

The permittee shall maintain a record of all solvents used in the fluid beds and keep a copy of the associated MSDS to verify that the solvents did not contain any constituent HAPs. [R13-2068N 6.4.2.; R30-06100033-2006 MM05 5.4.1.]

Records of weekly inspections conducted on the cartridge collector shall be maintained on site for five (5) years from the record creation date. Records shall state the date and time of each cartridge collector inspection, the inspection results, and corrective actions taken, if any. [R13-2068N 6.4.1.; R30-06100033-2006 MM05 5.4.2.]

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:

534, 536, 538, 572, 574, 575, 577, 581

Each fluid bed is identical with identical requirements.

Emission unit name:

Fluid Bed 534, Fluid Bed 536, Fluid Bed 538, Fluid Bed 572, Fluid Bed 574, Fluid Bed 575, Fluid Bed 577, Fluid Bed 581

List any control devices associated with this emission unit:

Cartridge Collector (CC) 473 & RTO 10008085 (534); CC 1222 (536); CC 1855 & RTO 10008085 (538); CC 2181 & RTO 10008085 (572); CC 3416 & RTO 10008085 (574); CC 3643 & RTO 10008085 (575); CC 3881 & RTO 10008085 (577); CC TBD (581)

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

The fluid bed equipment is used to provide a proper granulation of the pharmaceutical compounds. Powders are blended and dried within one unit. Each fluid bed is equipped with an internal filter for powder product recovery purposes. In addition to the integral filter, each fluid bed is equipped with a cartridge collector on the process emission vents. VOC emissions are controlled by a regenerative thermal oxidizer (RTO) for Fluid Beds 534, 538, 572, 574, 575, and 577. Fluid Beds connected to the RTO are also authorized to emit to atmosphere.

Manufacturer:

Vector Corporation

Model number:

FL - M - 60

Serial number:

Unknown

Construction date:
Installation date:

534: 1997; 536: 1997;
538: 2002; 572: 2004;
574: 2006; 575: 2007;
577: 2008; 581: Fall 2011

Modification date(s):

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 250 kg/load per fluid bed (R13-2068O/R30-06100033-2006 MM06 Application)

Maximum Hourly Throughput:

Varies

Maximum Annual Throughput:

Varies

Maximum Operating Schedule:

18 hours/day, 7 days/week, 50 weeks/year

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? Yes No

If yes, is it?

Indirect Fired Direct Fired

Maximum design heat input and/or maximum horsepower rating:

n/a

Type and Btu/hr rating of burners:

n/a

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.

n/a

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)	0.1 each	0.1 each
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	529.2 pph each or 10.59 pph each with RTO (534, 538, 572, 574, 575, 577, 581)	99 tpy total for all fluid beds (533-538, 571-582) as of June 1, 2011; 94 tpy total for all fluid beds (533-538, 571-582) by September 1, 2011 (proposed in R13-2068O/R30-03100033-2006 MM06 Application)
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
n/a		

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.).

Emissions based on operating design within processing capabilities incorporating control device efficiencies.

Emissions listed in Permit R13-2068N and R30-06100033-2006 MM05.

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.

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation, which is greater than twenty (20) percent opacity. [45CSR§7-3.1.; R13-2068N 6.1.1.; R30-06100033-2006 MM05 5.1.1.]

Maximum PM emissions from each Fluid Bed to the atmosphere shall not exceed 0.1 pounds per hour and 0.1 tons per year. [45CSR § 7-4.1.; R13-2068N 6.1.3.; R30-06100033-2006 MM05 5.1.2.]

The fluid beds shall operate according to the following requirements: a. The aggregate dry material loading of the fluid bed (excluding times of tablet coating in a fluid bed) shall not exceed the following limits: (1) Fluid Beds 534, 536, 538, 572, 574, 575, 577: 154 250 kg/load (2) Fluid Beds 533, 535, 537, 571, 573, 576, 578, 579, 580, 581, 582: 550 575 kg/load b. The annual aggregate dry material loading of all fluid beds shall not exceed 99,000,000 pounds on a rolling yearly total basis. c. Cartridge collectors shall be used at all times on each fluid bed to control particulate matter emissions. Each collector shall, at a minimum, achieve a collection efficiency of 95%. d. The spray rate used in each fluid bed shall not exceed 4 kilograms-VOC/minute. e. Fluid Beds 534, 538, 572, 574 – 578, and 580 shall have the capability of directing exhaust to the RTO for control of VOCs or emitting directly to atmosphere. f. Fluid Beds 573 and 579 shall have the capability of directing exhaust to the absorber for control of VOCs or emitting directly to atmosphere. g. No HAP-containing solvents shall be processed in any fluid bed. [R13-2068N 6.1.6.; R30-06100033-2006 MM05 5.1.3. (Section f is part of R13-2068O and R30-06100033-2006 MM06 Application)]

Maximum hourly VOC emissions to the atmosphere from each Fluid Bed shall not exceed: a. 529.2 lb/hr for each fluid bed if not venting exhaust to the RTO or absorber for the purpose of controlling VOC emissions. b. 10.59 lb/hr (as emitted from the RTO) each for Fluid Beds 534, 538, 572, 574 – 578, and 580 if venting exhaust to the RTO for the purpose of controlling VOC emissions. c. 26.46 lb/hr (as emitted from the absorber) each for Fluid Bed 573 and 579 if venting exhaust to the absorber for the purpose of controlling VOC emissions. [R13-2068N 6.1.4.; R13-06100033-2006 MM05 5.1.4. (Section c is part of R13-2068O and R30-06100033-2006 MM06 Application)]

Maximum total combined annual VOC emissions to the atmosphere from the Fluid Beds shall not exceed: a. 110.0 tons/year, or b. 99.0 tons/year as of June 1, 2011, or c. 94.0 tons/year as of September 1, 2011. [R13-2068N 6.1.5.; R30-06100033-2006 MM05 5.1.5. (Section c is part of R13-2068O and R30-06100033-2006 MM06 Application)]

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Applicable Requirements (continued)

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.)

For the purposes of demonstrating compliance with the minimum cartridge collection efficiency as given under 5.1.3.c, the permittee shall: a. Install, maintain, and operate the cartridge collectors consistent with safety and good air pollution control practices for minimizing emissions, and shall follow all manufacture's recommendations concerning control device maintenance and performance. b. Conduct a weekly visual inspection of the cartridge, cartridge connections, and dust hoppers of each cartridge collector, in order to ensure proper operation of cartridge collectors. Records shall be maintained on site for five (5) years from the record creation date. Records shall state the date and time of each cartridge collector inspection, the inspection results, and corrective actions taken, if any. c. Either conduct representative performance testing, pursuant to the performance testing procedures as outlined under 3.3.1. of this permit, on the cartridge collectors to determine a minimum collection efficiency or produce a vendor guarantee stating that the cartridge collectors (or associated filters) will meet a minimum collection efficiency of 95%. [R13-2068N 6.2.2.; R30-06100033-2006 MM05 5.2.1.]

Visible emissions monitoring shall be conducted initially at least once per month for all emission points subject to opacity limitations. After three consecutive monthly readings in which no visible emissions are observed from any of the subject emission points, those emission points will be allowed to conduct visible emissions checks once per calendar quarter. If visible emissions are observed during a quarterly monitoring from an emission point(s), then that emission point(s) with observed emissions or opacity shall be required to revert to monthly monitoring. Any emission point that has reverted to monthly monitoring shall be allowed to again conduct quarterly visible emissions checks only after three consecutive monthly readings in which no visible emissions are observed from the subject emission point.

These visible emission checks shall be conducted in accordance with 40 CFR 60, Appendix A, Method 22 during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions. If sources of visible emissions are identified during the survey, or at any other time, the permittee shall conduct a 40 CFR 60, Appendix A, Method 9 evaluation within twenty four (24) hours. A Method 9 evaluation shall not be required if the visible emissions condition is corrected within twenty four (24) hours from the time the visible emission condition was identified and the unit is operated at normal operating conditions. [R13-2068N 6.2.1.; R30-06100033-2006 MM05 5.2.2.]

For the purposes of demonstrating compliance with maximum dry material loading set forth in 5.1.3.a., the permittee shall monitor and record the total dry material per load for each fluid bed. This requirement may be waived if the permittee is able to demonstrate that the maximum reasonable design capacity of each fluid bed is equal or less than the maximum load given under 5.1.3.a. or if the permittee is able to demonstrate that the maximum loading based on product formulations is equal or less than the maximum load given under 5.1.3.a. [R13-2068N 6.2.3.; R30-06100033-2006 MM05 5.2.3.]

For the purposes of demonstrating compliance with maximum annual aggregate dry material loading set forth in 5.1.3.b., the permittee shall monitor and record the aggregate monthly and rolling twelve month total amount of dry material into the fluid beds. [R13-2068N 6.2.4.; R30-06100033-2006 MM05 5.2.4.]

Applicable Requirements (continued)

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. (continued)

For the purposes of demonstrating compliance with maximum annual VOC emission limit set forth in 5.1.5, the permittee shall: a. Monitor and record the aggregate monthly and rolling twelve month total amount of VOCs in pounds used in each fluid bed with the exception of Fluid Beds 534, 538, 572, and 574 – 580. b. Monitor and record the aggregate monthly and rolling twelve month total amount of VOCs in pounds used in Fluid Beds 534, 538, 572, 574 – 578, and 580 when each bed is and is not venting exhaust to the RTO for the purpose of controlling VOCs. c. Monitor and record the aggregate monthly and rolling twelve month total amount of VOCs in pounds used in Fluid Beds 573 and 579 when each bed is and is not venting exhaust to the absorber for the purpose of controlling VOCs. d. Calculate and record the monthly and rolling twelve month aggregate VOC emissions from all fluid beds by summing the following: (1) The total amount of VOCs in pounds used in each fluid bed with the exception of Fluid Beds 534, 538, 572, and 574 – 580. (2) The total amount of VOCs in pounds used in Fluid Beds 534, 538, 572, 574 – 578, and 580 when not venting exhaust to the RTO for the purpose of controlling VOCs. (3) The total amount of VOCs in pounds used in Fluid Beds 573 and 579 when not venting exhaust to the absorber for the purpose of controlling VOCs. (4) The total amount of VOCs used in Fluid Beds 534, 538, 572, 574 – 578, and 580 when venting exhaust to the RTO for the purpose of controlling VOCs. Based on compliance with Requirement 8.1.7 of this permit, the permittee may apply a VOC destruction efficiency of 98% to the amount of VOCs used in Fluid Beds 534, 538, 572, 574 – 578, and 580 when venting exhaust to the RTO for the purpose of controlling VOCs. (5) The total amount of VOCs used in Fluid Beds 573 and 579 when venting exhaust to the absorber for the purpose of controlling VOCs. Based on compliance with Requirement 11.1.3. of this permit, the permittee may apply a VOC destruction efficiency of 95% to the amount of VOCs used in Fluid Beds 573 and 579 when venting exhaust to the absorber for the purpose of controlling VOCs. [R13-2068N 6.2.5.; R30-06100033-2006 MM05 5.2.5. (Sections 5.2.5.c., 5.2.5.d.(3)., and 5.2.5.d.(5) are part of R13-2068O and R30-06100033-2006 MM06 Application)]

The permittee shall maintain a record of all solvents used in the fluid beds and keep a copy of the associated MSDS to verify that the solvents did not contain any constituent HAPs. [R13-2068N 6.4.2.; R30-06100033-2006 MM05 5.4.1.]

Records of weekly inspections conducted on the cartridge collector shall be maintained on site for five (5) years from the record creation date. Records shall state the date and time of each cartridge collector inspection, the inspection results, and corrective actions taken, if any. [R13-2068N 6.4.1.; R30-06100033-2006 MM05 5.4.2.]

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: N/A	Emission unit name: Laboratory Operations	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.):
 Mylan's Chestnut Ridge facility utilizes a Quality Control laboratory to test raw materials coming into the facility to verify quantity, quality and potency. The QC lab also tests products in intermediate processing steps, and at the end of processing to verify quality. The lab utilizes a wide variety of organic and inorganic high quality pharmaceutical grade chemicals, which have the potential to escape the building through lab hood vents and via general exhaust ventilation.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date:	Installation date: N/A	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
 Varies

Maximum Hourly Throughput: Varies	Maximum Annual Throughput: Varies	Maximum Operating Schedule: 24 hours/day, 7 days/week, 52 weeks/year
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A
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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.
 N/A

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)		9.4 tpy of any single HAP or 24.4 tpy of any combination of HAPs for all lab hoods
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs		9.4 tpy of any single HAP or 24.4 tpy of any combination of HAPs
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A		
<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>Material balance based on purchasing records and evaporation potential calculations.</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.

Facility-wide emissions to the atmosphere of Hazardous Air Pollutants (HAPs) shall not exceed or equal 9.4 tons per year of any single HAP or 24.4 tons per year of any combination of HAPs. Yearly total HAPs will be determined using a 12-month rolling total. [R13-2068N 3.1.7.; R30-06100033-2006 MM05 3.1.11.]

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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.)

The facility shall monitor on a monthly and yearly basis facility-wide HAP usage. Yearly HAP calculations shall be based on a 12-month rolling total. [R13-2068N 3.2.1.; R30-06100033-2006 MM05 3.2.1.]

To demonstrate compliance with the facility-wide HAP limits, the permittee shall maintain monthly and yearly records of facility-wide HAP usage. The facility shall prepare monthly facility-wide calculations of the amount of each individual HAP emitted and the amount of aggregated HAPs emitted. Yearly HAP calculations shall be based on a 12-month rolling total. [R13-2068N 3.4.3.; R30-06100033-2006 MM05 3.4.5.]

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: Various	Emission unit name: Various pharmaceutical manufacturing rooms	List any control devices associated with this emission unit: Rotoclones 280-283, 287, 288, 291, 294-300, 305-321
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 Compounding and formulating solid dose pharmaceuticals takes place in multiple production rooms containing manufacturing equipment. The rotoclone control devices are used to provide ventilation and exhaust for the production rooms. This rotoclone exhaust ventilation system, coupled with good manufacturing and housekeeping practices, ensures a clean room atmosphere for the manufacturing facility, as required by the Food and Drug Administration (FDA). The FDA (along with Mylan's quality control) limits the release/loss of pharmaceutical ingredients during manufacturing processes. This includes the release/loss of pharmaceutical ingredients to the atmosphere as air emissions of particulate matter. Particulate is removed by the exhaust system with a water spray inside of the rotoclones prior to release into the atmosphere.

Manufacturer: n/a	Model number: n/a	Serial number: n/a
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Construction date:	Installation date: 1982 to 2005 (see Attachment D: Equipment Table)	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
 Varies

Maximum Hourly Throughput: Varies	Maximum Annual Throughput: Varies	Maximum Operating Schedule: 24 hours/day, 7 days/week, 52 weeks/year
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating: n/a	Type and Btu/hr rating of burners: n/a
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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.
 n/a

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)	1.2 pph each (280-283); 0.4 pph each (287, 288, 291, 294, 295); 0.71 pph each (296-300, 305-321)	1.76 tpy each
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A		
<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>Potential emissions derived from maximum operation with incorporation of rotoclone control device efficiency of 98%.</p> <p>Emissions listed in R13-2068N and R30-06100033-2006 MM05.</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.

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity. [45CSR§7-3.1.; R13-2068N 7.1.1.; R30-06100033-2006 MM05 6.1.1.]

No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A found at the end of 45CSR7. Based on the process weight rates for the Pharmaceutical manufacturing equipment serviced by Rotoclones (280, 281, 282, 283), 1000 pounds per hour each, the corresponding allowable particulate matter emission rate is 1.2 pounds per hour each. [45CSR§7-4.1.; R13-2068N 7.1.2.; R30-06100033-2006 MM05 6.1.2.]

Maximum particulate matter emissions to the atmosphere shall not exceed the limits listed in Emissions Data above (287, 288, 291, 294, 295). [45CSR§7-4.1.; R13-2068N 7.1.3.; R30-06100033-2006 MM05 6.1.3.]

Emissions from the North Expansion Area pharmaceutical processing equipment rooms shall be vented to and controlled by a Rotoclone Wet Scrubber/Dust Collector (Control Device 296 through 300, and 305 through 321) prior to release to the atmosphere. [R13-2068N 7.1.5.; R13-06100033-2006 MM05 6.1.4.]

Maximum particulate matter (PM) emissions to the atmosphere from the North Expansion Area pharmaceutical processing equipment rooms through each Control Device 296 through 300, and 305 through 321 shall not exceed a maximum hourly emission rate of 0.71 pounds per hour (lb/hr) and 1.76 tons per year (tpy). [45CSR§7-4.1.; R13-2068N 7.1.6.; R30-06100033-2006 MM05 6.1.5.]

The Rotoclone control devices shall be designed to achieve a collection efficiency of 98% for particulate matter Emissions. [R13-2068N 7.1.4.; R30-06100033-2006 MM05 6.1.6.]

The permittee shall maintain and operate low water supply pressure sensors with control panel alarms for each Rotoclone to ensure adequate water supply and flow rate to the Rotoclones at each emission point specified, in order to ensure proper operation of the Rotoclone. [R13-2068N 7.1.7.; R30-06100033-2006 MM05 6.1.7.]

Permit Shield

Applicable Requirements (continued)

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.)

Visible emissions monitoring shall be conducted initially at least once per month for all emission points subject to opacity limitations. After three consecutive monthly readings in which no visible emissions are observed from any of the subject emission points, those emission points will be allowed to conduct visible emissions checks once per calendar quarter. If visible emissions are observed during a quarterly monitoring from an emission point(s), then that emission point(s) with observed emissions or opacity shall be required to revert to monthly monitoring. Any emission point that has reverted to monthly monitoring shall be allowed to again conduct quarterly visible emissions checks only after three consecutive monthly readings in which no visible emissions are observed from the subject emission point.

These visible emission checks shall be conducted in accordance with 40 CFR 60, Appendix A, Method 22 during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions. If sources of visible emissions are identified during the survey, or at any other time, the permittee shall conduct a 40 CFR 60, Appendix A, Method 9 evaluation within twenty four (24) hours. A Method 9 evaluation shall not be required if the visible emissions condition is corrected within twenty four (24) hours from the time the visible emission condition was identified and the unit is operated at normal operating conditions. [R13-2068N 7.2.1.; R30-06100033-2006 MM05 6.2.1.]

A record of each visible emission check shall be maintained on site for five (5) years from the record creation date. Such record shall include the date, time, name of emission unit, the applicable visible emissions requirement, the results of the check, what action(s), if any, was/were taken, and the name of the observer. {R13-2068N 7.4.1.; R30-06100033-2006 MM05 6.4.1.]

Records of Rotoclone low water supply pressure sensor alarm shall be maintained on site for five (5) years from the record creation date. Records shall state the date and time of each Rotoclone low water supply pressure sensor alarm. [R13-2068N 7.4.2.; R30-06100033-2006 MM05 6.4.2.]

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: 260, 261, 262, 263	Emission unit name: Oven 260, Oven 261, Oven 262, Oven 263	List any control devices associated with this emission unit: RTO (10008085)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 The ovens are used for drying a wet granulated batch. Commonly, the ovens are used to dry off the non-HAP solvent used in the granulated batch, which is emitted as a VOC and controlled by the regenerative thermal oxidizer (RTO). Steam from the boilers is used to generate the oven heat. The ovens were all installed prior to 1973, and the solvent emissions were controlled by the RTO beginning in 2011 and are authorized to emit to atmosphere (R13-2068O/R30-06100033-2006 MM06 Application).

Manufacturer: Unknown	Model number: Unknown	Serial number: Unknown
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Construction date:	Installation date: Prior to 1973	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
 Varies

Maximum Hourly Throughput: Varies	Maximum Annual Throughput: Varies	Maximum Operating Schedule: 24 hours/day, 7 days/week, 52 weeks/year
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A
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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.
 N/A

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)	529.2 pph each (without RTO) 10.59 pph each (as emitted from RTO) <i>(included in R13-2068O / R30-06100033-2006 MM06 Application)</i>	5 tpy total <i>(included in R13-2068O / R30-06100033-2006 MM06 Application)</i>
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
None		
<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>Potential emissions derived from maximum operation within production limitations.</p> <p>Emissions included in R13-2068O/R30-06100033-2006 MM06 Application.</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.

Maximum hourly volatile organic compound emissions to the atmosphere from the ovens shall not exceed: a. Maximum hourly volatile organic compound emissions to the atmosphere from the Oven Dryers shall not exceed 529.2 lb/hr for each oven unit if not venting exhaust to the RTO for the purpose of controlling VOC emissions. b. 10.59 lb/hr (as emitted from the RTO) each for each oven unit if venting exhaust to the RTO for the purpose of controlling VOC emissions. [R13-2068O 10.1.1.; R30-06100033-2006 MM06 Application 10.1.1.]

Maximum total combined annual volatile organic compound emissions to the atmosphere from the Oven Dryers shall not exceed 5.0 tons/year. [R13-2068O 10.1.2.; R30-06100033-2006 MM06 Application 10.1.2.]

The oven dryers shall operate according to the following requirements: a. Oven dryers 260, 261, 262, 263 shall have the capability of directing exhaust to the RTO for control of VOCs or emitting directly to atmosphere. b. No HAP-containing solvents shall be processed in any oven dryer. [R13-2068O 10.1.3.; R30-06100033-2006 MM06 Application 10.1.3.]

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.)

For the purposes of demonstrating compliance with maximum annual VOC emission limit set forth in 10.1.2, the permittee shall: a. Monitor and record the aggregate monthly and rolling twelve month total amount of VOCs in pounds used in Oven Dryers 260-263 when each oven is and is not venting exhaust to the RTO for the purpose of controlling VOCs. b. Calculate and record the monthly and rolling twelve month aggregate VOC emissions from all oven dryers by summing the following: (1) The total amount of VOCs in pounds used in Oven Dryers 260-263 when not venting exhaust to the RTO for the purpose of controlling VOCs. (2) The total amount of VOCs used in Oven Dryers 260-263 when venting exhaust to the RTO for the purpose of controlling VOCs. Based on compliance with Requirement 9.1.7 of this permit, the permittee may apply a VOC destruction efficiency of 98% to the amount of VOCs used in oven dryers 260-263 when venting exhaust to the RTO for the purpose of controlling VOCs. [R13-2068O 10.2.1.; R30-06100033-2006 MM06 Application 10.2.1.]

The permittee shall maintain a record of all solvents used in the oven dryers and keep a copy of the associated MSDS to verify that the solvents did not contain any constituent HAPs. [R13-2068O 10.4.1.; R30-06100033-2006 MM06 Application 10.4.1.]

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: 301, 302, 303, 304	Emission unit name: Tank 301, Tank 302, Tank 303, Tank 304	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.):
Two isopropyl alcohol (IPA) and two ethanol bulk liquid above ground storage tanks are utilized at Mylan. Each tank has a capacity of 8,200 gallons. The tanks are fitted with relief valves that provide for relief of negative pressure inside the tank during discharge. This same valve will relieve positive pressure in the tank when the pressure gradient between the inside and the outside of the tank reaches 2 psi. The tanks are filled from tanker trucks equipped with capture systems designed to prevent release of fluid or vapor. The piping from the tanks goes directly into the production buildings and is above ground.

Manufacturer:	Model number:	Serial number:
Construction date: 301, 302: 1978 303, 304: 2010-2011	Installation date: N/A	Modification date(s): N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
8,200 gallons per tank

Maximum Hourly Throughput: Varies	Maximum Annual Throughput: Varies	Maximum Operating Schedule: 24 hours/day, 7 days/week, 52 weeks/year
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A
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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.
N/A

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)		1 tpy total for all tanks
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A		
<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>Potential emissions derived from maximum annual turnover.</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.

N/A

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.)

None

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: EG01, EG02 Each emergency generator is identical and has identical requirements	Emission unit name: EG01, EG02	List any control devices associated with this emission unit: None	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Emergency generators EG01 and EG02 are Kohler 100 REZG natural gas fired emergency generators with design capacities of 162 bph/1,800 rpm.			
Manufacturer: Kohler	Model number: 100 REZG	Serial number:	
Construction date: N/A	Installation date: EG01: 2010 EG02: 2011	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 162 bph/1,800 rpm			
Maximum Hourly Throughput: 257 – 1,164 cubic feet natural gas per hour per emergency generator	Maximum Annual Throughput: 0.52 MM cubic feet natural gas per hour per emergency generator	Maximum Operating Schedule: 500 hours per year	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes, is it? <input checked="" type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired	
Maximum design heat input and/or maximum horsepower rating: 100kW / 162 bph / 1,800 rpm		Type and Btu/hr rating of burners: General Motors; Industrial Powertrain Vortec 8.1L Four Cycle engine	
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. Natural Gas: 1,164 cubic feet/hour per emergency generator; 0.52 million cubic feet/hour per generator (based on a maximum fuel throughput at 500 hours per year) No secondary fuel			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	N/A	N/A	1,020 BTU/scf

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	1.43 pph each	0.36 tpy each
Nitrogen Oxides (NO _x)	0.71 pph each	0.18 tpy each
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	0.01 pph each	<0.01 tpy each
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.36 pph each	0.09 tpy each
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Formaldehyde	0.02 pph each	<0.01 tpy each

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.).

Potential emissions derived from AP-42 Emission Factors, Fifth Edition, Volume I, Chapter I, Section 4: Natural Gas Combustion (7/98).

Emissions listed in Permit R30-06100033-2006 (MM05) and G60-C016 modification application which includes the addition of EG02.

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.

Only pipeline quality natural gas shall be burned in the Emergency Generator. [45CSR13, Permit No. G60-C016, R30-06100033-2006 MM05 9.1.1.]

Maximum emissions to the atmosphere shall not exceed the values identified in the Emissions Data above. [45CSR13, Permit No. G60-C016, R30-06100033-2006 MM05 9.1.2.]

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 requirements shall be based on requirements set forth in Class II General Permit G60-C016. [R13-06100033-2006 MM05 9.2.1.]

Testing requirements shall be based on requirements set forth in Class II General Permit G60-C016. [R30-06100033-2006 MM05 9.3.1.]

Recordkeeping requirements shall be based on requirements set forth in Class II General Permit G60-C016. [R30-06100033-2006 MM05 9.4.1.]

Reporting requirements shall be based on requirements set forth in Class II General Permit G60-C016. [R30-06100033-2006 MM05 9.5.1.]

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.

APPLICATION FOR NSR PERMIT
AND
TITLE V PERMIT RENEWAL

Attachment G

MYLAN PHARMACEUTICALS INC.
PLANT ID# 061-00033
MORGANTOWN, WEST VIRGINIA

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 210	List all emission units associated with this control device. Coating Pan 210
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Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 1985
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 210 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 215 (EF 1390)	List all emission units associated with this control device. Coating Pan 215
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Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 1999
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 215 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:

220

List all emission units associated with this control device.

Coating Pan 220

Manufacturer:

Donaldson

Model number:

DF T4-16

Installation date:

1986

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 Adsorber | <input type="checkbox"/> Packed Tower Scrubber | <input type="checkbox"/> Single Cyclone |
| <input type="checkbox"/> Carbon Drum(s) | <input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u> |
| <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
Particulate Matter	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 220 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 230	List all emission units associated with this control device. Coating Pan 230
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Manufacturer: Donaldson	Model number: 2DF12	Installation date: 1987
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 230 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 12 cartridge filters providing over 2000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
 If Yes, Complete ATTACHMENT H
 If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 240	List all emission units associated with this control device. Coating Pan 240	
Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 1983
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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	99.9%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).		
Control Device 240 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.		
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.		
Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.		
Describe the parameters monitored and/or methods used to indicate performance of this control device.		
Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.		

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 241 (EF 4553)	List all emission units associated with this control device. Coating Pan 241
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Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 2009
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 241 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
 If Yes, **Complete ATTACHMENT H**
 If No, **Provide justification.**
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 242 (EF 4101)	List all emission units associated with this control device. Coating Pan 242
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Manufacturer: Donaldson	Model number: DF T2-8	Installation date: 2008
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 242 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 8 cartridge filters providing over 1,500 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 243 (EF 4164)	List all emission units associated with this control device. Coating Pan 243
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Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 2008
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 243 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
 If Yes, **Complete ATTACHMENT H**
 If No, **Provide justification.**
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 244 (EF 7674)	List all emission units associated with this control device. Coating Pan 244
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Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 2010
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 244 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
If Yes, Complete ATTACHMENT H
If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 245 (EF 8422)	List all emission units associated with this control device. Coating Pan 245	
Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 2010
Type of Air Pollution Control Device: ___ Baghouse/Fabric Filter ___ Venturi Scrubber ___ Multiclone ___ Carbon Bed Adsorber ___ Packed Tower Scrubber ___ Single Cyclone ___ Carbon Drum(s) ___ Other Wet Scrubber ___ Cyclone Bank ___ Catalytic Incinerator ___ Condenser ___ Settling Chamber ___ Thermal Incinerator ___ Flare <u> X </u> Other (describe) <u>Cartridge Collector</u> ___ Wet Plate Electrostatic Precipitator ___ 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
Particulate Matter	100%	99.9%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). Control Device 245 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.		
Is this device subject to the CAM requirements of 40 C.F.R. 64? ___ Yes <u> X </u> No If Yes, Complete ATTACHMENT H If No, Provide justification. Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.		
Describe the parameters monitored and/or methods used to indicate performance of this control device. Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.		

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 533 (EF 527)	List all emission units associated with this control device. Fluid Bed 533
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Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 1991
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 533 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.**

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:

534 (EF 573)

List all emission units associated with this control device.

Fluid Bed 534

Manufacturer:

Donaldson

Model number:

DF T2-8

Installation date:

1997

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 Adsorber | <input type="checkbox"/> Packed Tower Scrubber | <input type="checkbox"/> Single Cyclone |
| <input type="checkbox"/> Carbon Drum(s) | <input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u> |
| <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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 534 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 8 cartridge filters providing over 1,500 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 535 (EF 1339)	List all emission units associated with this control device. Fluid Bed 535	
Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 1997
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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). Control Device 535 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.		
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. Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.		
Describe the parameters monitored and/or methods used to indicate performance of this control device. Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.		

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 536 (EF 1222)	List all emission units associated with this control device. Fluid Bed 536	
Manufacturer: Donaldson	Model number: DF T2-8	Installation date: 1997

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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 536 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 8 cartridge filters providing over 1,500 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
 If Yes, **Complete ATTACHMENT H**
 If No, **Provide justification.**
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 537 (EF 1552)	List all emission units associated with this control device. Fluid Bed 537	
Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 1997

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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 533 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
 If Yes, **Complete ATTACHMENT H**
 If No, **Provide justification.**
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 538 (EF 1855)	List all emission units associated with this control device. Fluid Bed 538
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Manufacturer: Donaldson	Model number: DF T2-8	Installation date: 2002
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 538 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 8 cartridge filters providing over 1,500 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 571 (EF 2113)	List all emission units associated with this control device. Fluid Bed 571
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Manufacturer: Donaldson	Model number: DF T3-18	Installation date: 2004
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 571 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 18 cartridge filters providing over 3,400 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
If Yes, Complete ATTACHMENT H
If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 572 (EF 2181)	List all emission units associated with this control device. Fluid Bed 572	
Manufacturer: Donaldson	Model number: DF T2-8	Installation date: 2004

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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 572 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 8 cartridge filters providing over 1,500 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 573 (3340)	List all emission units associated with this control device. Fluid Bed 573	
Manufacturer: Donaldson	Model number: DF T2-8	Installation date: 2006
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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).		
Control Device 573 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 8 cartridge filters providing over 1,500 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.		
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.		
Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.		
Describe the parameters monitored and/or methods used to indicate performance of this control device.		
Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.		

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 574 (3416)	List all emission units associated with this control device. Fluid Bed 574
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Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 2006
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 573 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
 If Yes, **Complete ATTACHMENT H**
 If No, **Provide justification.**
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 575 (3643)	List all emission units associated with this control device. Fluid Bed 575	
Manufacturer: Donaldson	Model number: DF T2-8	Installation date: 2007

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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 575 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 8 cartridge filters providing over 1,500 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
 If Yes, Complete ATTACHMENT H
 If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 576 (3407)	List all emission units associated with this control device. Fluid Bed 576	
Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 2007

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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 576 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 577 (3881)	List all emission units associated with this control device. Fluid Bed 577	
Manufacturer: Donaldson	Model number: DF T2-8	Installation date: 2008

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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 573 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 8 cartridge filters providing over 1,500 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
 If Yes, **Complete ATTACHMENT H**
 If No, **Provide justification.**
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 578 (3879)	List all emission units associated with this control device. Fluid Bed 578
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Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 2008
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 578 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 579 (4287)	List all emission units associated with this control device. Fluid Bed 579
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Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 2008
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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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 579 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 580 (10007482)	List all emission units associated with this control device. Fluid Bed 580	
Manufacturer: Donaldson	Model number: DF T4-16	Installation date: 2010

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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Cartridge Collector</u>
<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
Particulate Matter	100%	95%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 580 is a Donaldson Torit Downflo cartridge collector. It is a continuous, pulse-cleaning filtration system consisting of 16 cartridge filters providing over 3,000 square feet of filter area. Filter change out requirements are monitored through a Magnehelic pressure differential gauge.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
 If Yes, Complete ATTACHMENT H
 If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each cartridge collector undergoes a weekly, visual multi-point inspection. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 280	List all emission units associated with this control device. Rooms 74-101 – 74-122, 74-129	
Manufacturer: American Air Filter	Model number: W	Installation date: 1992

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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 280 is an American Air Filter Type W, Arrangement A, size 27 wet scrubber. Unit 280 commonly operates at a pressure of 45 psi, and uses approximately 324,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 281	List all emission units associated with this control device. Rooms 74-151, 74-153, 91-129, 91-130, 91-132, 91-134 – 91-137, 91-139, 91-229, 91-230, 91-232, 91-329, 91-330, 91-332, 91-334 – 91-337	
Manufacturer: American Air Filter	Model number: W	Installation date: 1991

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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 281 is an American Air Filter Type W, Arrangement A, size 33 wet scrubber. Unit 281 commonly operates at a pressure of 50 psi, and uses approximately 518,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
 If Yes, Complete ATTACHMENT H
 If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: <p style="text-align: center;">282</p>	List all emission units associated with this control device. <p style="text-align: center;">Rooms 74-150, 74-152, 74-154, 74-159, 74-160, 74-161, 74-162, 74-212, 91-232, 91-233</p>	
Manufacturer: <p style="text-align: center;">American Air Filter</p>	Model number: <p style="text-align: center;">W</p>	Installation date: <p style="text-align: center;">1982</p>

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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 282 is an American Air Filter Type W, Arrangement A, size 27 wet scrubber. Unit 282 commonly operates at a pressure of 30 psi, and uses approximately 294,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:

283

List all emission units associated with this control device.

Rooms 74-205 – 74-209, 99-217 – 99-219

Manufacturer:

American Air Filter

Model number:

846493-6

Installation date:

1982

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 Adsorber | <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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 283 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 283 commonly operates at a pressure of 30 psi, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: <p style="text-align: center;">287</p>	List all emission units associated with this control device. <p style="text-align: center;">Rooms BL209, BL211, BL214, BL304, BL306, BL307, BL309- BL314, BL316, BL402 – BL404, BL406-BL414, BL416</p>
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Manufacturer: <p style="text-align: center;">American Air Filter</p>	Model number: <p style="text-align: center;">446419</p>	Installation date: <p style="text-align: center;">1996</p>
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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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 287 is an American Air Filter Type W, Arrangement A, size 30 wet scrubber. Unit 287 commonly operates at a pressure of 35 psi, and uses approximately 307,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: <p style="text-align: center;">288</p>	List all emission units associated with this control device. <p style="text-align: center;">Rooms BB101-BB103, BB 106, BB108-BB111, BB113-BB118, BB201- BB203, BB206- BB208, BB210-BB217, BB303, BB312</p>
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Manufacturer: <p style="text-align: center;">American Air Filter</p>	Model number: <p style="text-align: center;">446419</p>	Installation date: <p style="text-align: center;">1996</p>
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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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 288 is an American Air Filter Type W, Arrangement A, size 30 wet scrubber. Unit 288 commonly operates at a pressure of 40 psi, and uses approximately 346,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 291	List all emission units associated with this control device. Rooms 85-205A – 85-208A, 99-105, 99-114 – 99-122, 99-209, ORG201A – ORG204A	
Manufacturer: American Air Filter	Model number: 1656297-9	Installation date: 1999

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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 291 is an American Air Filter Type W, Arrangement A, size 30 wet scrubber. Unit 291 commonly operates at a pressure of 50 psi, and uses approximately 307,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 295	List all emission units associated with this control device. Rooms BL218, BL219	
Manufacturer: American Air Filter	Model number: 1656297-5	Installation date: 2004

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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 295 is an American Air Filter Type W, Arrangement A, size 16 wet scrubber. Unit 295 commonly operates at a pressure of 40 psi, and uses approximately 151,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
 If Yes, Complete ATTACHMENT H
 If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:

294

List all emission units associated with this control device.

Rooms BB112, 85-106, 85-108, 85-114, 85-115, 85-102, 85-104, 85-107, 85-110

Manufacturer:

American Air Filter

Model number:

1656297-6

Installation date:

2003

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 Adsorber | <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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 294 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 294 commonly operates at a pressure of 40 psi, and uses approximately 194,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: <p style="text-align: center;">296</p>	List all emission units associated with this control device. <p style="text-align: center;">Rooms NEX140, NEX142, NEX144, NEX146, NEX159 - NEX162</p>	
Manufacturer: <p style="text-align: center;">American Air Filter</p>	Model number: <p style="text-align: center;">1656305-6</p>	Installation date: <p style="text-align: center;">2005</p>

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 Adsorber | <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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 296 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 296 commonly operates at a pressure of 9,600 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: <p style="text-align: center;">297</p>	List all emission units associated with this control device. <p style="text-align: center;">Rooms NEX139, NEX141, NEX143, NEX145, NEX152 - NEX158, NEX163, NEX164</p>	
Manufacturer: <p style="text-align: center;">American Air Filter</p>	Model number: <p style="text-align: center;">1656305-007</p>	Installation date: <p style="text-align: center;">2005</p>

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 Adsorber | <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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 297 is an American Air Filter Type W, Arrangement A, size 24 wet scrubber. Unit 297 commonly operates at a pressure of 10,800 cfm, and uses approximately 229,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:

298

List all emission units associated with this control device.

Rooms NEX131 - NEX136, NEX138, NEX147, NEX148

Manufacturer:

American Air Filter

Model number:

1656305-006

Installation date:

2005

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 Adsorber | <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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 298 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 298 commonly operates at a pressure of 9,000 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: <p style="text-align: center;">299</p>	List all emission units associated with this control device. <p style="text-align: center;">Rooms NEX175, NEX177, NEX179, NEX181, NEX183</p>
--	--

Manufacturer: <p style="text-align: center;">American Air Filter</p>	Model number: <p style="text-align: center;">1656305-006</p>	Installation date: <p style="text-align: center;">2005</p>
--	--	--

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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 299 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 299 commonly operates at a pressure of 7,800 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H
If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:

300

List all emission units associated with this control device.

Rooms NEX176, NEX178, NEX180, NEX182, NEX186 - NEX189

Manufacturer:

American Air Filter

Model number:

1656305-006

Installation date:

2005

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 Adsorber | <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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 300 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 300 commonly operates at a pressure of 9,600 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.**

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:

305

List all emission units associated with this control device.

Rooms NEX231, NEX232, NEX234, NEX275-NEX283, NEX286-NEX289

Manufacturer:

American Air Filter

Model number:

1656305-006

Installation date:

2005

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 Adsorber | <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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 305 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 305 commonly operates at a pressure of 5,400 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: <p style="text-align: center;">306</p>	List all emission units associated with this control device. <p style="text-align: center;">Rooms NEX211A-217A</p>
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Manufacturer: <p style="text-align: center;">American Air Filter</p>	Model number: <p style="text-align: center;">1656305-006</p>	Installation date: <p style="text-align: center;">2005</p>
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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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 306 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 306 commonly operates at a pressure of 9,600 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:

307

List all emission units associated with this control device.

Rooms NEX372, NEX374, NEX376, NEX378, NEX380

Manufacturer:

American Air Filter

Model number:

1656305-006

Installation date:

2005

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 Adsorber | <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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 307 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 307 commonly operates at a pressure of 9,600 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:

308

List all emission units associated with this control device.

Rooms NEX349, NEX362, NEX364, NEX366, NEX368, NEX369

Manufacturer:

American Air Filter

Model number:

1656305-007

Installation date:

2005

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 Adsorber | <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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 308 is an American Air Filter Type W, Arrangement A, size 24 wet scrubber. Unit 308 commonly operates at a pressure of 10,800 cfm, and uses approximately 229,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? ___ Yes No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.**

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 309	List all emission units associated with this control device. Rooms NEX346, NEX355, NEX357, NEX359 - NEX361	
Manufacturer: American Air Filter	Model number: 1656305-006	Installation date: 2005

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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 309 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 309 commonly operates at a pressure of 9,600 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 310	List all emission units associated with this control device. Rooms NEX375, NEX377, NEX379, NEX381
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Manufacturer: American Air Filter	Model number: 1656305-006	Installation date: 2005
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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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 310 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 310 commonly operates at a pressure of 7,200 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
 If Yes, **Complete ATTACHMENT H**
 If No, **Provide justification.**
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: <p style="text-align: center;">311</p>	List all emission units associated with this control device. <p style="text-align: center;">Rooms NEX 216A, NEX217A, NEX535-NEX538</p>
--	--

Manufacturer: <p style="text-align: center;">American Air Filter</p>	Model number: <p style="text-align: center;">1656305-5</p>	Installation date: <p style="text-align: center;">2005</p>
--	--	--

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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 311 is an American Air Filter Type W, Arrangement A, size 16 wet scrubber. Unit 311 commonly operates at a pressure of 5,400 cfm, and uses approximately 134,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:

312

List all emission units associated with this control device.

Rooms NEX321 - NEX330, NEX421 – NEX430

Manufacturer:

American Air Filter

Model number:

1656305-007

Installation date:

2005

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 Adsorber | <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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 312 is an American Air Filter Type W, Arrangement A, size 24 wet scrubber. Unit 312 commonly operates at a pressure of 12,000 cfm, and uses approximately 229,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: <p style="text-align: center;">313</p>	List all emission units associated with this control device. <p style="text-align: center;">Rooms NEX303, NEX405 - NEX412</p>
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Manufacturer: <p style="text-align: center;">American Air Filter</p>	Model number: <p style="text-align: center;">1656305-007</p>	Installation date: <p style="text-align: center;">2005</p>
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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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 313 is an American Air Filter Type W, Arrangement A, size 24 wet scrubber. Unit 313 commonly operates at a pressure of 10,800 cfm, and uses approximately 229,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 314	List all emission units associated with this control device. Rooms NEX468, NEX469, NEX472 - NEX480
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Manufacturer: American Air Filter	Model number: 1656305-006	Installation date: 2005
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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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 314 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 314 commonly operates at a pressure of 9,600 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
If Yes, Complete ATTACHMENT H
If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:

315

List all emission units associated with this control device.

Rooms NEX435 - NEX438, NEX413 - NEX416, NEX419

Manufacturer:

American Air Filter

Model number:

1656305-5

Installation date:

2005

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 Adsorber | <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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 315 is an American Air Filter Type W, Arrangement A, size 16 wet scrubber. Unit 315 commonly operates at a pressure of 4,800 cfm, and uses approximately 134,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:

316

List all emission units associated with this control device.

Rooms NEX464 - NEX467, NEX481, NEX482, NEX484 - NEX492

Manufacturer:

American Air Filter

Model number:

1656305-006

Installation date:

2005

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 Adsorber | <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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Control Device 316 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 316 commonly operates at a pressure of 7,800 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: <p style="text-align: center;">317</p>	List all emission units associated with this control device. <p style="text-align: center;">Rooms NEX305-NEX312, NEX316</p>	
Manufacturer: <p style="text-align: center;">American Air Filter</p>	Model number: <p style="text-align: center;">1656305-007</p>	Installation date: <p style="text-align: center;">2005</p>

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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 317 is an American Air Filter Type W, Arrangement A, size 24 wet scrubber. Unit 317 commonly operates at a pressure of 9,000 cfm, and uses approximately 229,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 318	List all emission units associated with this control device. Rooms NEX445B, NEX445C, NEC445D, NEX445E, NEX445F, NEX445G
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Manufacturer: American Air Filter	Model number: 1656305-007	Installation date: 2005
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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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 318 is an American Air Filter Type W, Arrangement A, size 24 wet scrubber. Unit 318 commonly operates at a pressure of 9,000 cfm, and uses approximately 229,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H
If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 319	List all emission units associated with this control device. Rooms NEX514, NEX516A-D, NEX522 -NEX524, NEX526, NEX528, NEX530, NEX535 - NEX538
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Manufacturer: American Air Filter	Model number: 1656305-006	Installation date: 2005
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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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 319 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 319 commonly operates at a pressure of 9,000 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H
If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: <p style="text-align: center;">320</p>	List all emission units associated with this control device. <p style="text-align: center;">Rooms NEX503, NEX505, NEX507, NEX509, NEX511, NEX513</p>
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Manufacturer: <p style="text-align: center;">American Air Filter</p>	Model number: <p style="text-align: center;">1656305-006</p>	Installation date: <p style="text-align: center;">2005</p>
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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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 320 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 320 commonly operates at a pressure of 9,600 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H
If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: <p style="text-align: center;">321</p>	List all emission units associated with this control device. <p style="text-align: center;">Rooms NEX506, NEX508, NEX510, NEX512, NEX515</p>	
Manufacturer: <p style="text-align: center;">American Air Filter</p>	Model number: <p style="text-align: center;">1656305-006</p>	Installation date: <p style="text-align: center;">2005</p>

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 Adsorber	<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
Particulate Matter	100%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 321 is an American Air Filter Type W, Arrangement A, size 20 wet scrubber. Unit 321 commonly operates at a pressure of 8,400 cfm, and uses approximately 173,000 gallons of water per month.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No

If Yes, Complete ATTACHMENT H

If No, Provide justification.

Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Each wet scrubber is continuously monitored for low water pressure. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 10008085 (RTO)	List all emission units associated with this control device. Fluid Bed 534, Fluid Bed Fluid Bed, Fluid Bed 572, Fluid Bed 574, Fluid Bed 575, Fluid Bed 576, Fluid Bed 577, Fluid Bed 578, Fluid Bed 580, Coating Pan 244, Coating Pan 245, Oven 260, Oven 261, Oven 262, Oven 263	
Manufacturer: Anguil Environmental	Model number: n/a	Installation date: 2010

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 Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input 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 checked="" type="checkbox"/> Other (describe) <u>Regenerative Thermal Oxidizer</u>
<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
Volatile Organic Compounds		98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Control Device 10008085 is regenerative thermal oxidizer (RTO) which has a maximum capacity of 40,000 cfm or 3,070 lbs/hr of solvent and operates at approximately 1500°F. Unit 10008085 uses natural gas at a maximum rate of 16 mmBTU/hr to maintain the temperature inside the combustion chamber between batches of product that contains solvent.

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No
If Yes, Complete ATTACHMENT H
If No, Provide justification.
 Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 The exhaust flow rate and combustion chamber temperature are monitored and recorded continuously. Quarterly visual emission observations are required.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 10008538 (Absorber)	List all emission units associated with this control device. Fluid Bed 573, Fluid Bed 579																			
Manufacturer: Verantis Corp.	Model number: n/a	Installation date: 2010																		
Type of Air Pollution Control Device: <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"><input type="checkbox"/> Baghouse/Fabric Filter</td> <td style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</td> <td style="width: 33%;"><input type="checkbox"/> Multiclone</td> </tr> <tr> <td><input type="checkbox"/> Carbon Bed Adsorber</td> <td><input checked="" type="checkbox"/> Packed Tower Scrubber</td> <td><input type="checkbox"/> Single Cyclone</td> </tr> <tr> <td><input type="checkbox"/> Carbon Drum(s)</td> <td><input type="checkbox"/> Other Wet Scrubber</td> <td><input type="checkbox"/> Cyclone Bank</td> </tr> <tr> <td><input type="checkbox"/> Catalytic Incinerator</td> <td><input type="checkbox"/> Condenser</td> <td><input type="checkbox"/> Settling Chamber</td> </tr> <tr> <td><input type="checkbox"/> Thermal Incinerator</td> <td><input type="checkbox"/> Flare</td> <td><input type="checkbox"/> Other (describe) _____</td> </tr> <tr> <td><input type="checkbox"/> Wet Plate Electrostatic Precipitator</td> <td></td> <td><input type="checkbox"/> Dry Plate Electrostatic Precipitator</td> </tr> </table>			<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone	<input type="checkbox"/> Carbon Bed Adsorber	<input checked="" type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone	<input type="checkbox"/> Carbon Drum(s)	<input 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
<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone																		
<input type="checkbox"/> Carbon Bed Adsorber	<input checked="" type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone																		
<input type="checkbox"/> Carbon Drum(s)	<input 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																		
Volatile Organic Compounds		95%																		
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). Control Device 10008538 is a packed tower absorber that uses water to remove volatile organic compounds from the exhaust. Unit 10008538 commonly operates at 4,000 cfm, and uses approximately 80-100 gallons of water per minute. The water is collected in a tank during the absorption cycle, which is approximately one hour depending on the product.																				
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. Emission limitations and continuous compliance determination methods are outlined in permits R13-2068N and R30-06100033-2006 MM05 for pollutant-specific emission units with a control device that meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.																				
Describe the parameters monitored and/or methods used to indicate performance of this control device. The water flow rate is continuously monitored and low water flow rate alarms are recorded.																				