



## State of New Jersey

Department of Environmental Protection

Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02

Trenton, NJ 08625-0420

PHILIP D. MURPHY

*Governor*

SHEILA Y. OLIVER

*Lt. Governor*

SHAWN M. LATOURETTE

*COMMISSIONER*

### Air Pollution Control Operating Permit Renewal

**Permit Activity Number: BOP180001**

**Program Interest Number: 85452**

Mailing Address	Plant Location
FLORIS FOOLJ SITE MANAGER DSM NUTRITIONAL PRODUCTS INC 205 MACKS ISLAND DR Belvidere, NJ 07823-1113	DSM NUTRITIONAL PRODUCTS LLC 205 Macks Is Dr Aka Roche Dr White Twp Warren County

**Initial Operating Permit Approval Date: January 5, 2005**

**Operating Permit Approval Date: Draft**

**Operating Permit Expiration Date: January 4, 2020 (Operating Under Application Shield)**

#### **AUTHORITY AND APPLICABILITY**

The New Jersey Department of Environmental Protection (Department) approves and issues this Air Pollution Control Operating Permit under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). This permit is issued in accordance with the air pollution control permit provisions promulgated at Title V of the Federal Clean Air Act, 40 CFR 70, Air Pollution Control Act codified at N.J.S.A. 26:2C and New Jersey State regulations promulgated at N.J.A.C. 7:27-22.

The Department approves this operating permit based on the evaluation of the certified information provided in the permit application that all equipment and air pollution control devices regulated in this permit comply with all applicable State and Federal regulations. The facility shall be operated in accordance with the conditions of this permit. This operating permit supersedes any previous Air Pollution Control Operating Permits issued to this facility by the Department including any general operating permits, renewals, significant modifications, minor modifications, seven-day notice changes or administrative amendments to the permit.

Changes made through this permit activity are provided in the Reason for Application.

#### **PERMIT SHIELD**

This operating permit includes a permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17.

#### **COMPLIANCE SCHEDULES**

This operating permit does not include compliance schedules as part of the approved compliance plan.

#### **COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS**

The permittee shall submit to the Department and to United States Environmental Protection Agency (US EPA) periodic compliance certifications, in accordance with N.J.A.C. 7:27-22.19. **The annual compliance certification** is due to the Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. **Semi-annual deviation reports** relating to compliance testing and monitoring are due to the Department within 30 days after the end of the semi-annual period. The schedule and additional details for these submittals are available in Subject Item - FC, of the Facility Specific Requirements of this permit.

### **ACCESSING PERMITS**

The facility's current approved operating permit and any previously issued permits (e.g. superseded, expired, or terminated) are available for download in PDF format at: <http://www.nj.gov/dep/aqpp>. After accessing the website, click on "Approved Operating Permits" listed under "Reports" and then type in the Program Interest (PI) Number as instructed on the screen. If needed, the RADIUS file for your permit, containing Facility Specific Requirements (Compliance Plan), Inventories and Compliance Schedules can be obtained by contacting the Helpline number given below. RADIUS software, instructions, and help are available at the Department's website at <http://www.nj.gov/dep/aqpp>.

### **HELPLINE**

The Operating Permit Helpline is available for any questions at (609) 633-8248 from 9:00 AM to 4:00 PM Monday to Friday.

### **RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD**

The permittee is responsible for submitting a timely and administratively complete operating permit renewal application pursuant to N.J.A.C. 7:27-22.30. Only applications which are timely and administratively complete are eligible for an application shield. The details on the contents of the renewal application, submittal schedule, and application shield are available in Section B - General Provisions and Authorities of this permit.

### **COMPLIANCE ASSURANCE MONITORING**

Facilities that are subject to Compliance Assurance Monitoring (CAM), pursuant to 40 CFR 64, shall develop a CAM Plan for modified equipment as well as existing sources. The rule and guidance on how to prepare a CAM Plan can be found at EPA's website: <https://www.epa.gov/air-emissions-monitoring-knowledge-base/compliance-assurance-monitoring>. In addition, CAM Plans must be included as part of the permit renewal application. Facilities that do not submit a CAM Plan may have their permit applications denied, pursuant to N.J.A.C. 7:27-22.3.

### **ADMINISTRATIVE HEARING REQUEST**

If, in your judgment, the Department is imposing any unreasonable condition of approval, you may contest the Department's decision and request an adjudicatory hearing pursuant to N.J.S.A. 52:14B-1 et seq. and N.J.A.C. 7:27-22.32(a). All requests for an adjudicatory hearing must be received in writing by the Department within 20 calendar days of the date you receive this letter. The request must contain the information specified in N.J.A.C. 7:27-1.32 and the information on the NJ04 - Administrative Hearing Request Checklist and Tracking Form available at <https://www.state.nj.us/dep/aqpp/applying.html>.

If you have any questions regarding this permit approval, please call Shafi Ahmed at (609) 633-2971.

Approved by:

\_\_\_\_\_  
Joel Leon

Enclosure

CC: Suilin Chan, United States Environmental Protection Agency, Region 2

**Facility Name: DSM NUTRITIONAL PRODUCTS LLC**  
**Program Interest Number: 85452**  
**Permit Activity Number: BOP180001**

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## Section A

**Facility Name: DSM NUTRITIONAL PRODUCTS LLC**

**Program Interest Number: 85452**

**Permit Activity Number: BOP180001**

### **POLLUTANT EMISSIONS SUMMARY**

Table 1: Total emissions from all Significant Source Operations<sup>1</sup> at the facility.

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> <sup>2</sup> (total)	Pb	HAPs* (total)	CO <sub>2</sub> e <sup>3</sup>
Emission Units Summary	54.8	90	34.9	6.26	73.7	73.7	73.7	NA	0.605	
Batch Process Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Group Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Emissions	54.8	90	34.9	6.26	73.7	73.7	73.7	NA	0.605	98,768

Table 2: Estimate of total emissions from all Insignificant Source Operations<sup>1</sup> and total emissions from Non-Source Fugitives at the facility.

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> <sup>2</sup> (total)	Pb	HAPs (total)
Insignificant Source Operations	1.68	2.33	3.73	NA	2.7	2.48	2.48	NA	NA
Non-Source Fugitive Emissions <sup>4</sup>	0.25	NA	NA	NA	NA	NA	NA	NA	NA

VOC: Volatile Organic Compounds

NO<sub>x</sub>: Nitrogen Oxides

CO: Carbon Monoxide

SO<sub>2</sub>: Sulfur Dioxide

N/A: Indicates the pollutant is not emitted or is emitted below the reporting threshold specified in N.J.A.C. 7:27-22, Appendix, Table A and N.J.A.C. 7:27-17.9(a).

TSP: Total Suspended Particulates

Other: Any other air contaminant regulated under the Federal CAA

PM<sub>10</sub>: Particulates under 10 microns

PM<sub>2.5</sub>: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO<sub>2</sub>e: Carbon Dioxide equivalent

\*Emissions of individual HAPs are provided in Table 3 on the next page.

Emissions of "Other" air contaminants are provided in Table 4 on the next page.

<sup>1</sup> Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C. 7:27-22.1.

<sup>2</sup> PM<sub>2.5</sub> has been included in air permitting rules as of December 9, 2017. Consequently, PM<sub>2.5</sub> totals in this section may not be up to date. The Department is in the process of updating these limits during each permit modification, and the entire permit will be updated at the time of permit renewal.

<sup>3</sup> Total CO<sub>2</sub>e emissions for the facility.

<sup>4</sup> Non-Source Fugitive Emissions are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

## Section A

**Facility Name: DSM NUTRITIONAL PRODUCTS LLC**

**Program Interest Number: 85452**

**Permit Activity Number: BOP180001**

### **POLLUTANT EMISSIONS SUMMARY**

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations <sup>5</sup>:

HAP	TPY
Formaldehyde	0.605
Arsenic	0.0000118
Cadmium	0.0000651
Cobalt	0.00000497
7,12-Dimethylbenz(a)anthracene	0.000000947

Table 4: Summary of “Other” air contaminants emissions from Significant Source Operations:

Other Air Contaminant	TPY
Ammonia	5.1
Sulfuric Acid Mist	0.32

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<sup>5</sup> Do not sum the values below for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

## Section B

**Facility Name: DSM NUTRITIONAL PRODUCTS LLC**

**Program Interest Number: 85452**

**Permit Activity Number: BOP180001**

### **GENERAL PROVISIONS AND AUTHORITIES**

1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant that occurs only in areas over which the permittee has exclusive use or occupancy. Requirements relative only to nuisance situations, including odors, are not considered federally enforceable. [N.J.A.C. 7:27-22.16(g)8]
2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:
  - a. If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:
    - i. Immediately on the Department hotline at 1-(877) 927-6337, pursuant to N.J.S.A. 26:2C-19(e); and
    - ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or
  - b. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or
  - c. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, and the permittee intends to assert the affirmative defense afforded by N.J.A.C. 7:27-22.16(l), the violation shall be reported by 5:00 PM of the second full calendar day following the occurrence, or of becoming aware of the occurrence, consistent with N.J.A.C. 7:27-22.16(l). [N.J.A.C. 7:27-22.19(g)1]
3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]
4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]
5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

6. The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]
7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]
8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]
9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]
10.
  - a. For emergencies (as defined at 40 CFR 70.6(g)(1)) that result in non-compliance with any promulgated federal technology-based standard such as NSPS, NESHAPS, or MACT, a federal affirmative defense is available, pursuant to 40 CFR 70. To assert a federal affirmative defense, the permittee must use the procedures set forth in 40 CFR 70. The affirmative defense provisions described below may not be applied to any situation that caused the Facility to exceed any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT.
  - b. For situations other than those covered above, an affirmative defense is available for a violation of a provision or condition of the operating permit only if:
    - i. The violation occurred as a result of an equipment malfunction, an equipment startup or shutdown, or during the performance of necessary equipment maintenance; and
    - ii. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5 and any implementing rules. [N.J.A.C. 7:27-22.16(l)]
11. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]
12. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]
13. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22 or 7:27-17.9(a), unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]
14. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.
15. Consistent with the provisions of N.J.A.C. 7:27-22.3(s), Except as otherwise provided in this subchapter, the submittal of any information or application by a permittee including, but not limited to, an application or notice for any change to the operating permit, including any administrative amendment, any minor or significant modification, renewal, a notice of a seven-day notice change, a notice of past or anticipated noncompliance, does not stay any operating permit condition, nor relieve a permittee from the obligation to obtain other necessary permits and to comply with all applicable Federal, State, and local requirements.

16. Applicable requirements derived from an existing or terminated consent decree with EPA will not be changed without advance consultation by the Department with EPA. N.J.A.C. 7:27-22.3(uu).
17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.
  - a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.
  - b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.
  - c. The permittee cannot use temporary mobile equipment unless the owner or operator of the subject equipment has obtained and maintains an approved Air Pollution Control Permit, issued pursuant to N.J.A.C. 7:27-8 or 22, prior to bringing the temporary mobile equipment to operate at the major facility.
  - d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved Air Pollution Control Permit when the temporary mobile equipment operates on the property of the permittee.
  - e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of 90 days during any calendar year.
  - f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i)3.
  - g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.
  - h. Where short-term activities (employing temporary mobile equipment) will reoccur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.
18. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.
19. The permittee is responsible for submitting timely and administratively complete operating permit applications:

Administrative Amendments [N.J.A.C. 7:27-22.20(c)];  
Seven-Day Notice changes [N.J.A.C. 7:27-22.22(e)];  
Minor Modifications [N.J.A.C. 7:27-22.23(e)];  
Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and  
Renewals [N.J.A.C. 7:27-22.30(b)].
20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website <http://www.nj.gov/dep/aqpp/applying.html> (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal



at: <http://njdeponline.com/>. The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, the renewal application shall include all information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that any deficiencies can be identified and addressed to ensure that the application is administratively complete by the renewal deadline. Only renewal applications which are timely and administratively complete are eligible for an application shield.

21. For all source emissions testing performed at the facility, the phrase “worst case conditions without creating an unsafe condition” used in the enclosed compliance plan is consistent with EPA’s National Stack Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:
  - i. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and
  - ii. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.
22. Consistent with EPA’s National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance.
23. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]
24. A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department’s Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]

## Section C

**Facility Name: DSM NUTRITIONAL PRODUCTS LLC**

**Program Interest Number: 85452**

**Permit Activity Number: BOP180001**

### **STATE-ONLY APPLICABLE REQUIREMENTS**

N.J.A.C. 7:27-22.16(b)5 requires the Department to specifically designate as not being federally enforceable any permit conditions based only on applicable State requirements. The applicable State requirements to which this provision applies are listed in the table titled "State-Only Applicable Requirements."

### **STATE-ONLY APPLICABLE REQUIREMENTS**

The following applicable requirements are not federally enforceable:

<u>SECTION</u>	<u>SUBJECT ITEM</u>	<u>ITEM #</u>	<u>REF. #</u>
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B	---	10b	---
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## Section D

**Facility Name: DSM NUTRITIONAL PRODUCTS LLC**

**Program Interest Number: 85452**

**Permit Activity Number: BOP180001**

### **FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES**

#### **FACILITY SPECIFIC REQUIREMENTS PAGE INDEX**

<b><u>Subject Item and Name</u></b>	<b><u>Page Number</u></b>
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**Facility (FC):**

FC	1
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**Non-Source Fugitive Emissions (FG):**

FG NJID	FG Description	
FG2	LDAR per N.J.A.C. 7-27-16.18	7

**Insignificant Sources (IS):**

IS NJID	IS Description	
IS1	Small Combustion Equipment (<1 MMBtu/hr)	9
IS2	Small Manufacturing and Materials Handling Equipment (<50 lb/hr throughput)	10
IS3	Small Manufacturing and Materials Handling Equipment [( <1,000 gal, <1.5 psi v.p.) or (>1,000 gal, <0.02 psi v.p., <350 degrees F)]	11
IS7	Storage Vessels [>10,000 gal, <0.02 psi v.p., <350 degrees F) or (>2,000 gal, <0.02 psi v.p., <350 degrees F)]	13
IS8	Surface cleaners using <5% VOC and HAP by weight	15
IS9	Unheated surface cleaners (with a top opening of < 6 ft2 or a capacity < 100 gal)	16
IS15	Tanks <1000 gal <1.5 psia with 99% particulate control	17

**Emission Units (U):**

U NJID	U Designation	U Description	
U200	BLDG 200	DISTRIBUTION CENTER	19
U202	BLDG 202	BOILER / UTILITY OPERATIONS	29
U209	BLDG 209	DRY POWDERS	80
U212	BLDG 212	WASTEWATER TREATMENT PLANT	95
U218	BLDG 218	TANK FARM	104
U222	BLDG 222	DERIVATIVES OF VITAMIN C	107
U228	BLDG 210/228	FIRE PUMP DRIVERS	130
U240	BUILDING 240	BUILDINGS 240, 241 AND 242	139
U253	BLDG 253	EMERGENCY GENERATOR, 1.02 MMBtu/hr	154
U262	BLDG 262	OPTIMA: BUILDING 262	163
U265	CPU	BLDG 264: LIQUID PRODUCT FORMS (LPF) & BLDG265: CUSTOM PRODUCT UNIT (CPU)	169
U213000	TO	VOC Recovery System	177
U214501	STEP: 5	STEP 5: MOBILE TANKER	179

**DSM NUTRITIONAL PRODUCTS LLC (85452)**  
**BOP180001**

Date: 5/4/2022

**New Jersey Department of Environmental Protection**  
**Reason for Application**

**Permit Being Modified**

**Permit Class:** BOP      **Number:** 190001

**Description**      DSM Nutritional Products LLC is taking this opportunity to submit documentation needed  
**of Modifications:** to renew our current Operating Permit BOP130002.

BOP180001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Subject Item: FC

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	General Provisions: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-1. [N.J.A.C. 7:27- 1]	None.	None.	None.
2	Control and Prohibition of Open Burning: The permittee is prohibited from open burning of rubbish, garbage, trade waste, buildings, structures, leaves, other plant life and salvage. Open burning of infested plant life or dangerous material may only be performed with a permit from the Department. [N.J.A.C. 7:27- 2]	None.	None.	Obtain an approved permit: Prior to occurrence of event (prior to open burning). [N.J.A.C. 7:27- 2]
3	Prohibition of Air Pollution: The permittee shall not emit into the outdoor atmosphere substances in quantities that result in air pollution as defined at N.J.A.C. 7:27-5.1. [N.J.A.C. 7:27- 5]	None.	None.	None.
4	Prevention and Control of Air Pollution Control Emergencies: Any person responsible for the operation of a source of air contamination set forth in Table 1 of N.J.A.C. 7:27-12 is required to prepare a written Standby Plan, consistent with good industrial practice and safe operating procedures, and be prepared for reducing the emission of air contaminants during periods of an air pollution alert, warning, or emergency. Any person who operates a source not set forth in Table 1 of N.J.A.C. 7:27-12 is not required to prepare such a plan unless requested by the Department in writing. [N.J.A.C. 7:27-12]	None.	None.	Comply with the requirement: Upon occurrence of event. Upon proclamation by the Governor of an air pollution alert, warning, or emergency, the permittee shall put the Standby Plan into effect. In addition, the permittee shall ensure that all of the applicable emission reduction objectives of N.J.A.C. 7:27-12.4, Table I, II, and III are complied with whenever there is an air pollution alert, warning, or emergency. [N.J.A.C. 7:27-12]
5	Emission Offset Rules: The permittee shall comply with all applicable provisions of Emission Offset Rules. [N.J.A.C. 7:27-18]	None.	None.	None.
6	Emission Statements: The permittee shall comply with all the applicable provisions of N.J.A.C. 7:27-21. [N.J.A.C. 7:27-21]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Compliance Certification: The permittee shall submit an annual Compliance Certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f). [N.J.A.C. 7:27-22]	None.	None.	Submit an Annual Compliance Certification: Annually to the Department and to EPA within 60 days after the end of each calendar year during which this permit was in effect. The Compliance Certification shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The certification should be printed for submission to EPA.  The NJDEP online web portal can be accessed at: <a href="http://www.state.nj.us/dep/online/">http://www.state.nj.us/dep/online/</a> . The Compliance Certification forms and instructions for submitting to EPA are available by selecting Documents and Forms and then Periodic Compliance Certification. [N.J.A.C. 7:27-22]
8	Prevention of Air Pollution from Consumer Products and Architectural Coatings: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-24 and [N.J.A.C. 7:27-23]	None.	None.	None.
9	Any operation of equipment which causes off-property effects, including odors, or which might reasonably result in citizen's complaints shall be reported to the Department to the extent required by the Air Pollution Control Act, N.J.S.A. 26:2C-19(e). [N.J.S.A. 26: 2C-19(e)]	Other: Observation of plant operations. [N.J.S.A. 26: 2C-19(e)].	Other: Maintain a copy of all information submitted to the Department. [N.J.S.A. 26: 2C-19(e)].	Notify by phone: Upon occurrence of event. A person who causes a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints shall immediately notify the Department. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337. [N.J.S.A. 26: 2C-19(e)]
10	Prevention of Significant Deterioration: The permittee shall comply with all applicable provisions of Prevention of Significant Deterioration (PSD). [40 CFR 52.21]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Asbestos, Subpart M. [40 CFR 61]	Other: Comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Other: Comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61]
12	Protection of Stratospheric Ozone:1) If the permittee manufactures, transforms, destroys, imports, or exports a Class I or Class II substance, the permittee is subject to all the requirements as specified at 40 CFR 82, Subpart A; 2) If the permittee performs a service on motor "fleet" vehicles when this service involves an ozone depleting substance refrigerant (or regulated substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified at 40 CFR 82, Subpart B. 3) The permittee shall comply with the standards for labeling of products containing or manufactured with ozone depleting substances pursuant to 40 CFR 82, Subpart E. 4). The permittee shall comply with the standards for recycling and emission reductions of Class I and Class II refrigerants or a regulated substitute substance during the service, maintenance, repair, and disposal of appliances pursuant to 40 CFR 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. 5) The permittee shall be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program (SNAP) promulgated pursuant to 40 CFR 82, Subpart G. [40 CFR 82]	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Deviation Reports: The permittee shall submit to the Department a certified six-month Deviation Report relating to testing and monitoring required by the operating permit. [N.J.A.C. 7:27-22.19(d)3], [N.J.A.C. 7:27-22.19(e)], and [N.J.A.C. 7:27-22.19(c)]	None.	Other: The permittee shall maintain deviation reports for a period of five years from the date each report is submitted to the Department. [N.J.A.C. 7:27-22.19(a)] and [N.J.A.C. 7:27-22.19(e)].	Submit a report: As per the approved schedule. The six-month deviation reports for the period from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and for the period from July 1 through December 31, shall be submitted by January 30 of the following calendar year.  The annual compliance certification required by N.J.A.C. 7:27-22.19(f) may also be considered as your six-month Deviation Report for the period from July 1 – December 31, if submitted by January 30 of the following calendar year. The reports shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal.  The NJDEP online web portal can be accessed at: <a href="http://www.state.nj.us/dep/online/">http://www.state.nj.us/dep/online/</a> . The Compliance Certification forms are available by selecting Documents and Forms and then Periodic Compliance Certification. [N.J.A.C. 7:27-22]
14	Used Oil Combustion: No person shall combust used oil except as authorized pursuant to N.J.A.C. 7:27-20. [N.J.A.C. 7:27-20.2]	None.	None.	Comply with the requirement: Prior to occurrence of event (prior to burning used oil) either register with the Department pursuant to N.J.A.C. 7:27-20.3 or obtain a permit issued by the Department pursuant to N.J.A.C. 7:27-8 or 7:27-22, whichever is applicable. [N.J.A.C. 7:27-20.2(d)]
15	Prevention of Accidental Releases: Facilities producing, processing, handling or storing a chemical, listed in the tables of 40 CFR Part 68.130, and present in a process in a quantity greater than the listed Threshold Quantity, shall comply with all applicable provisions of 40 CFR 68. [40 CFR 68]	Other: Comply with 40 CFR 68. [40 CFR 68].	Other: Comply with 40 CFR 68. [40 CFR 68].	Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	The Department and its authorized representatives shall have the right to enter and inspect any activity subject to N.J.A.C. 7:27-22, or portion thereof, pursuant to N.J.A.C. 7:27-1.31. [N.J.A.C. 7:27-22.16(g)9]	None.	None.	None.
17	The permittee shall pay fees to the Department pursuant to N.J.A.C. 7:27. [N.J.A.C. 7:27-22.16(g)10]	None.	None.	None.
18	Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit.  Whenever the permittee makes a replacement, modification, change or repair of a certified CEMS or COMS that may significantly affect the ability of the system to accurately measure or record data, the permittee must recertify the CEMS or COMS in accordance with Section V.B. and Appendix E of Technical Manual 1005.  The permittee is responsible for any downtime associated with the replacement, modification, change or repair of the CEMS or COMS. [N.J.A.C. 7:27-22.18(j)]	None.	None.	Comply with the requirement: Upon occurrence of event. The permittee is responsible for contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. [N.J.A.C. 7:27-22.18(j)]
19	Each process monitor must be operated at all times when the associated process equipment is operating except during service outage time not to exceed 24 hours per calendar quarter. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee must keep a service log to document any outage. [N.J.A.C. 7:27-22.16(o)]	None.
20	Continuous recording for process monitors must be at a sufficient frequency and resolution to be able to document compliance or non-compliance in accordance with Technical Manual 1005 for CEMS (TM1005(B)(3)). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	If an operating permit has expired, the conditions of the operating permit, including the requirements for stack testing remain enforceable until the operating permit is reissued. [N.J.A.C. 7:27-22.30(j)] and [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Subject Item:** FG2 LDAR per N.J.A.C. 7-27-16.18

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>No person subject to this section shall cause, suffer, allow or permit a regulated leak of any applicable VOC from any pressure relief device or any other component without moving parts (including, without limitation, flanges, manholes, hatches, instrument connections, sealed connections, joints and fittings), unless one of the following conditions is satisfied:</p> <ol style="list-style-type: none"> <li>1. The person first attempts to repair the regulated leak, and completes the repair, as soon as is practicable but not beyond the time allotted for each of those actions in Table 18A;</li> <li>2. The leak is an overpressure release discharge from a pressure relief device, for which the pressure relief device is designed, and the release is properly reported pursuant to any applicable law or rule; or</li> <li>3. The leak is a discharge to an emergency device (such as a flare) that is designed to combust gases generated during process upsets for emergency events. [N.J.A.C. 7:27-16.18(c)]</li> </ol>	None.	None.	None.
2	<p>No person shall cause, suffer, allow or permit a regulated leak of any applicable VOC from any agitator or any other component with moving parts (including, without limitation, valves, pumps, compressors, agitators and diaphragms), unless the person first attempts to repair the leak, and completes the repair, as soon as is practicable but not beyond the time allotted for each of those actions in Table 18B. [N.J.A.C. 7:27-16.18(d)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>The owner or operator shall develop and implement a leak detection and repair program for any equipment subject to the provisions of N.J.A.C. 7:27-16.18(c) and (d). The program shall include the following provisions:</p> <ol style="list-style-type: none"> <li>1. The minimum frequency of testing of components shall be as prescribed at N.J.A.C. 7:27-16.18(1)(i) through (v).</li> <li>2. By no later than five days after a pressure relief device has vented to the atmosphere, the pressure relief device shall be tested;</li> <li>3. By no later than five days after repair, any component from which a regulated leak was detected shall be retested; 4. - Accomplished.</li> <li>5. A readily visible identification tag shall be affixed to any component detected to have a regulated leak.</li> <li>6. Any component detected to have a regulated leak shall be repaired, in accordance with the schedules set forth in Tables 18A or 18B.</li> <li>7. A component that does not come in contact with applicable VOC at any time during a specified monitoring period need not be monitored during that period, but, instead, must only be monitored within 30 days of when the component next comes in contact with applicable VOC; and</li> <li>8. Notwithstanding paragraphs (i)1 through 6 above, equipment that is not operating need not be started up solely for the purpose of monitoring components within a specified monitoring frequency period, but, instead, components of such equipment must be monitored within 30 days of when the equipment is next restarted. [N.J.A.C. 7:27-16.18(i)]</li> </ol>	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Subject Item:** IS1 Small Combustion Equipment (<1 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content or over the road diesel receipts in lieu of sulfur records. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content or over the road diesel receipts in lieu of sulfur records. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Subject Item:** IS2 Small Manufacturing and Materials Handling Equipment (<50 lb/hr throughput)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall comply with the applicable standards for the emissions of particulates including 20% opacity as required in N.J.A.C. 7:27-6. [N.J.A.C. 7:27-6]	None.	None.	None.

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**Subject Item:** IS3 Small Manufacturing and Materials Handling Equipment [( $<1,000$  gal,  $<1.5$  psi v.p.) or ( $>1,000$  gal,  $<0.02$  psi v.p.,  $<350$  degrees F)]

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The operating temperature of each tank shall not be greater than 350 degrees Fahrenheit. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	The vapor pressure of the liquid in each tank, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees Fahrenheit, whichever temperature is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The tank shall have no visible emissions to the outdoor atmosphere, exclusive of condensed water vapor. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tanks shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-21.1]	None.	None.	None.
5	The tank shall not qualify for any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-21.1]	None.	None.	None.
6	Each tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that:</p> <p>(1) Specifies the contents of each tank; (2) Affirms that each tank meets all of the applicable requirements written above; and (3) Attests that each tank is in compliance with all other applicable state or federal air pollution requirements. [N.J.A.C. 7:27-22.1]</p>	None.	None.	None.



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**Subject Item:** IS7 Storage Vessels [>10,000 gal, <0.02 psi v.p., <350 degrees F) or (>2,000 gal, <0.02 psi v.p., <350 degrees F)]

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The operating temperature of each tank shall not be greater than 350 degrees Fahrenheit. [N.J.A.C. 7:27-21.1]	None.	None.	None.
2	The vapor pressure of the liquid in each tank, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees Fahrenheit, whichever temperature is higher. [N.J.A.C. 7:27-21.1]	None.	None.	None.
3	The tank shall have no visible emissions to the outdoor atmosphere, exclusive of condensed water vapor. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tanks shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-21.1]	None.	None.	None.
5	The tank shall not qualify for any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-21.1]	None.	None.	None.
6	Each tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that:</p> <p>(1) Specifies the contents of each tank; (2) Affirms that each tank meets all of the applicable requirements written above; and (3) Attests that each tank is in compliance with all other applicable state or federal air pollution requirements. [N.J.A.C. 7:27-22.1]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection  
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**Subject Item:** IS8 Surface cleaners using <5% VOC and HAP by weight

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall use a tightly fitting working-mode cover that completely covers the machine's opening and that shall be kept closed at all times except when parts are being placed into or being removed from the machine or when solvent is being added or removed. [N.J.A.C. 7:27-16.6(j)1]	Monitored by visual determination upon occurrence of event, based on an instantaneous determination. Monitoring shall occur for each period of inactive use of the machine. [N.J.A.C. 7:27-22.16(o)]	None.	None.
2	The owner or operator of a cold cleaning machine or a heated cleaning machine shall maintain, for not less than two years after the date of purchase of solvent, the information pertaining to the solvent as specified in N.J.A.C. 7:27-16.6(j)4i through 4v, and shall, upon the request of the Department, provide the information to the Department. [N.J.A.C. 7:27-16.6(j)4]	None.	None.	None.

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Facility Specific Requirements**

**Subject Item:** IS9 Unheated surface cleaners (with a top opening of < 6 ft2 or a capacity < 100 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall use a tightly fitting working-mode cover that completely covers the machine's opening and that shall be kept closed at all times except when parts are being placed into or being removed from the machine or when solvent is being added or removed. [N.J.A.C. 7:27-16.6(j)1]	Monitored by visual determination upon occurrence of event, based on an instantaneous determination. Monitoring shall occur for each period of inactive use of the machine. [N.J.A.C. 7:27-22.16(o)]	None.	None.
2	The owner or operator of a cold cleaning machine or a heated cleaning machine shall maintain, for not less than two years after the date of purchase of solvent, the information pertaining to the solvent as specified in N.J.A.C. 7:27-16.6(j)4i through 4v, and shall, upon the request of the Department, provide the information to the Department. [N.J.A.C. 7:27-16.6(j)4]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
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**Subject Item:** IS15 Tanks <1000 gal <1.5 psia with 99% particulate control

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The vapor pressure of any liquid, excluding the vapor pressure of water, is less than 1.5 pounds per square inch. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	The vessel is equipped with a control apparatus designed to remove particulate emissions at a minimum efficiency of 99 percent or is located inside a room that is equipped with a control apparatus designed to remove particulate emissions at a minimum efficiency of 99 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The tank shall have no visible emissions to the outdoor atmosphere, exclusive of condensed water vapor. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tanks shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-21.1]	None.	None.	None.
5	The tank shall not qualify for any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-21.1]	None.	None.	None.
6	Each tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that:</p> <p>(1) Specifies the contents of each tank; (2) Affirms that each tank meets all of the applicable requirements written above; and (3) Attests that each tank is in compliance with all other applicable state or federal air pollution requirements. [N.J.A.C. 7:27-22.1]</p>	None.	None.	None.

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**Emission Unit:** U200 DISTRUBUTION CENTER with an Emergency Generator

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63, MACT Subpart ZZZZ. [40 CFR Federal Rules Summary]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. Applies to PT20002. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	Emissions of all other air contaminants not listed under this Subject Item including HAPs are below the respective reporting thresholds in N.J.A.C. 7:27-22 Appendix Table A and N.J.A.C 7.27-17.9(a). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Other: The permittee shall visually observe PT20002 once per calendar day when the control device (CD200002) is operating during cleaning cycles.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter once per calendar day during operation for each emission point (PT20002) in either a readily accessible log book or computer memories. The permittee shall record the date, emission point, control device and name/initials of the person performing the observation along with the results of the visual observation. [N.J.A.C. 7:27-22.16(o)]	None.
5	Raw Material/Air Contaminant List: Non-HAP Particulate.  The maximum raw material throughput is as follows:  VACUUM SYS 2 (E200002) <= 1100 lb/batch (0.5 metric tons/batch). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Total Throughput <= 1,930 tons/yr (1,750.9 metric tons/yr). [N.J.A.C. 7:27-22.16(e)]	Other: Total Throughput: Monitored by production records each month during operation.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: Recordkeeping by manual logging of parameter each month during operation in either a readily accessible log book or computer memories. The permittee shall record the monthly and year to date process throughput for Unit 200. [N.J.A.C. 7:27-22.16(o)]	None.
7	Maximum Gross Heat Input <= 9.954 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
8	VOC (Total) <= 0.03 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO <= 0.213 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	NOx (Total) <= 1.47 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Carbon Dioxide <= 180 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO2 <= 0.102 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 0.08 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-10 (Total) <= 0.08 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The owner or operator shall comply with the General Provisions as shown in Table 8 to Subpart ZZZZ of 40 CFR 63 that apply to an existing emergency or black start CI RICE constructed or reconstructed before June 12, 2006 and located at an area source of HAP emissions except for a residential, commercial, or institutional emergency stationary RICE. [40 CFR 63.6665]	None.	None.	None.
16	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall change oil and filter every 500 hours of operation or annually, whichever comes first, as prescribed in Table 2d, item 4a to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6603(a)]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the oil and filter change. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
17	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary, as prescribed in Table 2d, item 4b and 4c to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6603(a)]	Other: The owner or operator shall inspect air cleaner every 1000 hours or annually, whichever comes first and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the maintenance procedures and air cleaner, belt and hoses replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
18	The engine must be in compliance with all applicable emission limitations and operating limitations in Subpart ZZZZ of 40 CFR 63 at all times. [40 CFR 63.6605(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	At all times the owner or operate must operate and maintain a RICE including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.
20	An owner or operator of an existing stationary emergency or black start RICE must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or the owner or operator must develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]	Other: Monitored according to the manufacturer's emission-related written instructions or the maintenance plan developed by the owner or operator. [40 CFR 63.6625(e)].	Other: The owner or operator must keep records of the maintenance procedures. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.
21	The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]	Other: The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Other: The owner or operator must keep records of the maintenance procedures and replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year as allowed in 40 CFR 63.6640(f)(1)(iii), is prohibited. [40 CFR 63.6640(f)(1)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f)(2)]	None.
23	The owner or operator may operate an emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. The owner or operator may operate an emergency RICE up to 50 hours per year in non-emergency situations as allowed by 40 CFR 63.6640(f)(1)(iii) but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. [40 CFR 63.6640(f)(1)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f)(2)]	None.

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**Emission Unit:** U200 DISTRUBUTION CENTER with an Emergency Generator

**Operating Scenario:** OS3 EMERGENCY GENERATOR BURNING #2 FUEL OIL

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 6 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source, 9.954 MMBtu/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	<p>Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information:</p> <p>For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator. [N.J.A.C. 7:27-19.11]</li> </ul>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <ol style="list-style-type: none"> <li>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</li> <li>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</li> <li>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</li> </ol>	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information:</p> <ol style="list-style-type: none"> <li>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</li> <li>2. For each time the emergency generator is specifically operated for testing or maintenance: <ol style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator; and</li> </ol> </li> <li>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</li> </ol> <p>The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and. [N.J.A.C. 7:27-19.11]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at <a href="http://airnow.gov/">http://airnow.gov/</a>, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at <a href="http://www.state.nj.us/dep/aqpp/aqforecast">http://www.state.nj.us/dep/aqpp/aqforecast</a>; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source.</p> <p>[N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.
8	Generator fuel limited to #2 fuel oil or diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Opacity <= 10 % , exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	Maximum Gross Heat Input <= 9.954 MMBTU/hr. [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
11	VOC (Total) <= 0.59 lb/hr. Maximum emission rate from Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	NOx (Total) <= 29.5 lb/hr. Maximum emission rate from Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	CO <= 4.23 lb/hr. Maximum emission rate from Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	SO2 <= 2.03 lb/hr. Maximum emission rate from Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	TSP <= 1.64 lb/hr. Maximum emission rate from Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
16	PM-10 (Total) <= 1.64 lb/hr. Maximum emission rate from Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.



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Facility Specific Requirements**

**Emission Unit:** U202 BOILER / UTILITY OPERATIONS**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart Db 40 CFR 60 Subpart Dc 40 CFR 60 Subpart JJJJ 40 CFR 60 Subpart KKKK 40 CFR 63 Subpart ZZZZ. [40 CFR Federal Rules Summary]	None.	None.	None.
2	<p><b>STACK TESTING SUMMARY</b> The permittee shall conduct a stack test for PT202012 (Temporary Boiler) using a protocol approved by the Department to demonstrate compliance with emission limits for VOC, CO, and NOx as specified in the compliance plan for OS17.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p><b>THIS STACK TEST IS SUBJECT TO THE SIGNIFICANT MODIFICATION SUPPLEMENTAL FEES PURSUANT TO N.J.A.C. 7:27-22.31. [N.J.A.C. 7:27-22.16(a)]</b></p>	<p>Other: The stack test must be conducted either within 180 days from the date of the approved modified permit BOP190001 for the new source, within 60 days of the protocol approval or within 180 days after initial startup of the new source, whichever comes later.</p> <p>If a source is subject to NSPS, extending the testing date beyond 180 days after the source's initial startup requires prior approval from US EPA. [N.J.A.C. 7:27-22.18] and [N.J.A.C. 7:27-22.16(o)].</p>	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved modified permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: <a href="http://www.epa.gov/ttnchie1/ert">http://www.epa.gov/ttnchie1/ert</a>. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p><b>RENEWAL STACK TESTING SUMMARY:</b></p> <p>The permittee shall conduct a stack test, for PT202003 (Boiler No. 2) and PT202005 (Boiler No. 4), no later than every five years from the last stack using an approved protocol to demonstrate compliance with emission limits for CO and NO<sub>x</sub> as specified in the compliance plan for OS5 and OS9.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>Note: Since Boiler # 2 and # 4 are not in operation at this time, the boilers must be tested within 4 weeks of returning to service. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s).</p> <p>[N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 12 months prior to the completion of the five year period since the last stack test. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: <a href="http://www.epa.gov/ttnchie1/ert">http://www.epa.gov/ttnchie1/ert</a>. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>Cogen E202009 and E202010: Conduct a comprehensive stack test for Stack PT202001 (Cogen) annually and upon operating permit renewal to demonstrate compliance with emission limits for the following contaminants:</p> <p>NO<sub>x</sub>, CO, and ammonia for Combustion Turbine and Duct Burner burning Natural Gas. Duct Burner shall be in operation during stack test. (U202 OS15 &amp; OS16).</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee shall provide EMS with the turbine load performance curve with the protocol and provide any special circumstances such as operating range of the equipment. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results annually. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 each year, no fewer than 90 calendar days prior to conducting its annual stack emission testing. Alternatively the Permittee may request EMS to use the approved protocol.</p> <p>Within 30 days of protocol approval, the Permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>The stack test must be conducted within 12 months following the previous test, and in no less than 180 days between the tests.</p> <p>Within 30 days of protocol approval, the permittee must contact EMS at (609) 984-3443 to schedule a mutually acceptable test date. The stack test report shall be submitted to the EMS within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist per N.J.A.C. 7:27-22.18(h).</p> <p>Test results shall be expressed in lb/hr, lb/MMBtu, and ppmvd@15% O<sub>2</sub>. [N.J.A.C. 7:27-22.16(o)] and. [N.J.A.C. 7:27-22.18(e)]</p>
5	<p>Boiler # 2 and # 4 can not operate until stack tested again. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Boiler # 2 and # 4 should be stack tested before operation. [N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Keep stack test reports. [N.J.A.C. 7:27-22.16(o)].</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>Maximum Gross Heat Input <math>\leq</math> 1,625,000 MMBtu (HHV) per any 365 consecutive day period. The maximum combined annual heat input limit for Boiler #s 2 and 4 and the Cogeneration unit's turbine and duct burner (E202004, E202006, E202009, E202010 and E202012 combined) is 1,625,000 MMBtu (HHV) per any 365 day period.</p> <p>Total annual heat input during any 365 day period shall be calculated by adding the total heat input for a given day to the total heat input during the preceding 364 days. Daily MMBtu fuel use shall be calculated using the following formula:  <math display="block">(\text{MMBtu (HHV)}/\text{day}) = [(1020 \text{ Btu/scf (HHV)}) \times (\text{scf of natural gas consumed by E202004, E202006, E202009, E202010 and E202012 combined})]/1,000,000</math> [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis). Each boiler and a cogen shall have a fuel meter. Each flow meter shall be installed, calibrated, maintained and operated according to the manufacturer's instruction. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Daily records of the amount of fuel fired in each boiler and a cogen shall be kept. [N.J.A.C. 7:27-22.16(o)]</p>	None.
7	<p>Maximum Gross Heat Input <math>\leq</math> 750,000 MMBTU (HHV) per any 365 consecutive day period. The maximum combined annual heat input limit for Boiler #s 2, 4, and the temporary boiler (E202004, E202006, and E202012 combined) is 750,000 MMBtu/any 365 day period.</p> <p>Total annual heat input during any 365 day period shall be calculated by adding the total heat input for a given day to the total heat input during the preceding 364 days. Daily MMBtu fuel use shall be calculated using the following formula:  <math display="block">(\text{MMBtu (HHV)}/\text{day}) = [(1020 \text{ Btu/scf})(\text{HHV}) \times (\text{scf of natural gas consumed by E202004, E202005, E202006, and E202012 combined})]/1,000,000</math> [N.J.A.C. 7:27-22.16(a)]</p>	<p>Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis). Each boiler shall have a fuel meter. Each flow meter shall be installed, calibrated, maintained and operated according to the manufacturer's instruction. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Daily records of the amount of fuel fired in each boiler shall be kept. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	VOC (Total) <= 16.4 tons/yr. Emission cap to avoid becoming a major Prevention of Significant Deterioration (PSD) source pursuant to 40 CFR 52.21. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 84.9 tons/yr. Emission cap to avoid becoming a major PSD source pursuant to 40 CFR 52.21. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Total annual emissions will be the sum of the emissions from turbine, duct burner, 2 boilers, emergency generators and the temporary boiler combined. Annual emissions in TPY for turbine, duct burner, 2 boilers or temporary boiler = {stack emission factor, Lb/MMBTU (HHV) x actual natural gas combusted in MMFt3/Year x 1020 MMBTU/MMFt3 x Ton/2000 Lb}. The lb/MMBtu factors to be used for each unit will be based on the average of the latest three consecutive valid stack test runs conducted during the compliance stack testing for that particular unit. Annual Emissions in TPY for emergency generators = {(hours of operation x hourly emission rate)/2000}. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the sum of the emissions for the month with the total emissions for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	CO <= 34.2 tons/yr. Emission cap to avoid becoming a major PSD source pursuant to 40 CFR 52.21. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Total annual emissions will be the sum of the emissions from turbine, duct burner, 2 boilers, emergency generators and the temporary boiler combined. Annual emissions in TPY for turbine, duct burner, 2 boilers or temporary boiler = {stack emission factor, Lb/MMBTU (HHV) x actual natural gas combusted in MMFt3/Year x 1020 MMBTU/MMFt3 x Ton/2000 Lb}. The lb/MMBtu factors to be used for each unit will be based on the average of the latest three consecutive valid stack test runs conducted during the compliance stack testing for that particular unit. Annual Emissions in TPY for emergency generators = {(hours of operation x hourly emission rate)/2000}. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the sum of the emissions for the month with the total emissions for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
11	SO2 <= 5.7 tons/yr. Emission cap to avoid becoming a major PSD source pursuant to 40 CFR 52.21. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	TSP <= 18 tons/yr. Emission cap to avoid becoming a major PSD source pursuant to 40 CFR 52.21. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Total annual emissions will be the sum of the emissions from turbine, duct burner, 2 boilers, emergency generators and the temporary boiler combined. Annual emissions in TPY for turbine or duct burner = {stack emission factor, Lb/MMBTU (HHV) x actual natural gas combusted in MMFt3/Year x 1020 MMBTU/MMFt3 x Ton/2000 Lb}. The lb/MMBTU factors to be used for each unit will be based on the average of the latest three consecutive valid stack test runs conducted during the compliance stack testing for that particular unit. Annual Emissions in TPY for emergency generators, 2 boilers or temporary boiler = {(hours of operation x hourly emission rate)/2000}. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the sum of the emissions for the month with the total emissions for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
13	PM-10 (Total) <= 18 tons/yr. Emission cap to avoid becoming a major PSD source pursuant to 40 CFR 52.21. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Total annual emissions will be the sum of the emissions from turbine, duct burner, 2 boilers, emergency generators and the temporary boiler combined. Annual emissions in TPY for turbine or duct burner = {stack emission factor, Lb/MMBTU (HHV) x actual natural gas combusted in MMFt3/Year x 1020 MMBTU/MMFt3 x Ton/2000 Lb}. The lb/MMBTU factors to be used for each unit will be based on the average of the latest three consecutive valid stack test runs conducted during the compliance stack testing for that particular unit. Annual Emissions in TPY for emergency generators, and 2 boilers = {(hours of operation x hourly emission rate)/2000}. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the sum of the emissions for the month with the total emissions for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	PM-2.5 (Total) <= 18 tons/yr. Emission cap to avoid becoming a major PSD source pursuant to 40 CFR 52.21. [N.J.A.C. 7:27-22.16(a)]	Other: Compliance with monitoring requirement for PM-10 will satisfy the requirement for PM-2.5.[N.J.A.C. 7:27-22.16(o)].	Other: Compliance with recordkeeping requirement for PM-10 will satisfy the requirement for PM-2.5.[N.J.A.C. 7:27-22.16(o)].	None.
15	Ammonia <= 5.1 tons/yr. Applies to OS15 and OS16 combined only. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Arsenic compounds <= 0.0000118 tons/yr based on AP-42 and permitted fuel use for temporary boiler. [N.J.A.C. 7:27-22.16(a)]	Arsenic compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Keep the record of calculations.[N.J.A.C. 7:27-22.16(o)].	None.
17	Cadmium compounds <= 0.0000651 tons/yr based on AP-42 and permitted fuel use for temporary boiler. [N.J.A.C. 7:27-22.16(a)]	Cadmium compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Keep the record of calculations.[N.J.A.C. 7:27-22.16(o)].	None.
18	Cobalt compounds <= 0.00000497 tons/yr based on AP-42 and permitted fuel use for temporary boiler. [N.J.A.C. 7:27-22.16(a)]	Cobalt compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Keep the record of calculations.[N.J.A.C. 7:27-22.16(o)].	None.
19	Formaldehyde <= 0.605 tons/yr based on AP-42 and permitted hours/ fuel use for the sources. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Keep the record of calculations.[N.J.A.C. 7:27-22.16(o)].	None.
20	Dimethylbenz(a)anthracene (7,12-) <= 9.47E-7 tons/yr based on AP-42 and permitted fuel use for temporary boiler. [N.J.A.C. 7:27-22.16(a)]	Dimethylbenz(a)anthracene (7,12-): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Keep the record of calculations.[N.J.A.C. 7:27-22.16(o)].	None.
21	A complete list of all turbines involved in the Turbine Engine Exchange Program shall be kept at the site. This list shall include detailed information on the Make, Model, Serial Number, and Maximum Heat Input. In addition, the location of each turbine shall be identified and updated, as needed. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and every time an turbine exchange occurs. Keep records of:  a) The date the turbine exchange occurred, and  b) Identification of the existing turbine being removed and exchange turbine by make, model, serial number and location. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Once initially and every time an engine exchange occurs. Submit notification to the Department's Regional Enforcement Office in writing no later than 7 days after any engine from the original fleet is exchanged with another engine from that fleet. [N.J.A.C. 7:27-22.16(o)]



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The exchange turbine must have identical horsepower, heat rate, and maximum allowable emissions as the original turbine engine that is exchanged. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and every time an turbine exchange occurs. The Permittee shall keep a certification from the original manufacturer that all turbines in the turbine exchange program have the same air contaminant emissions profile. [N.J.A.C. 7:27-22.16(o)]	None.
23	The exchange program shall not exceed a 15-year period from the original engine's commencement of operation. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. All records must be kept on site for at least fifteen years. [N.J.A.C. 7:27-22.16(o)]	None.
24	If any of the actions performed as a result of the repair and maintenance constitute a modification or reconstruction as defined in N.J.A.C. 7:27-22, the facility's air permit must be modified to address the change. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Upon occurrence of event. The report shall be a permit modification application, if applicable. [N.J.A.C. 7:27-22.16(o)]
25	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. [NSPS A]. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. [NSPS A]. [40 CFR 60.12]	None.	None.	None.
27	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. [NSPS A]. [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
28	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. [NSPS A]. [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]
29	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the actual date of initial startup of an affected facility postmarked within 15 days after such date. [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(3)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in section 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. [NSPS A]. [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]
31	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. [NSPS A]. [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall contain the information required in 40 CFR 60.7(b) and be postmarked by the 30th day following the end of each six-month period. The report shall be submitted to the EPA Region 2 Administrator and the appropriate Regional Enforcement Office of NJDEP and be in the format specified at 40 CFR Part 60.7(c) and 40 CFR Part 60.7(d). [40 CFR 60.7(c)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
32	Any owner or operator subject to the provisions of this part shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. [NSPS A]. [40 CFR 60.7(f)]	None.	Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the dates of the record, except as prescribed in 40 CFR 60.7(f)(1) through (3). Sources subject to 40 CFR 70, are required to retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application, per 40 CFR 70.6(a)(3)(ii)(B). [40 CFR 60.7(f)].	None.
33	Within 60 days after achieving the maximum production rate at which the affected facility will operate, but not later than 180 days after initial startup of the facility, the owner or operator shall conduct performance test(s) and shall furnish the Administrator a written report of the results. [NSPS A]. [40 CFR 60.8(a)]	None.	None.	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit results of the performance test(s) to the Administrator. [40 CFR 60.8(a)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
34	Performance tests shall be conducted under conditions the Administrator specifies to the plant operator based on representative performance of the affected facility. Operations during periods of startup, shutdown and malfunction shall not constitute representative conditions for the purpose of the performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [NSPS A]. [40 CFR 60.8(c)]	None.	None.	None.
35	The owner or operator shall provide the Administrator at least 30 days prior notice of any performance test and shall provide adequate performance testing facilities as specified in 40 CFR Part 60.8(e). [NSPS A]. [40 CFR 60.8(d)]	None.	None.	None.
36	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. [NSPS A]. [40 CFR 60.8(f)]	None.	None.	None.
37	Compliance with NSPS standards specified in this permit, other than opacity standards, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in NSPS. [NSPS A]. [40 CFR 60.11(a)]	None.	None.	None.
38	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. [NSPS A]. [40 CFR 60.11(d)]	None.	None.	None.

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**Emission Unit:** U202 BOILER / UTILITY OPERATIONS**Operating Scenario:** OS5 BLDG 202-BOILER NO 2 (127 MMBTU/hr), NG

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 3.2(a)]	None.	None.	None.
2	Particulate Emissions <= 16.9 lb/hr from the combustion of fuel based on rated heat input of source and the table at N.J.A.C. 7:27-4.2. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 50 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-16.8(b)]	None.	None.	None.
4	CO <= 100 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-16.8(b)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.2 lb/MMBTU when firing oil and/or gas. [N.J.A.C. 7:27-19.7(i)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
6	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year.</p> <p>If the source is not operated during the quarter of the calendar year in which the annual adjustment is to be performed, the owner or operator shall perform the adjustment within seven days after the boiler or other indirect heat exchanger is next operated.</p> <p>The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16. [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]</p>	<p>Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the combustion adjustment monitoring procedures specified in NJDEP Technical Manual 1005 and the procedure at N.J.A.C. 7:27-19.16(a) as follows: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx and CO in ppmvd and O2 in percent, before and after the adjustment is made; and 6. Convert the measured emission values of NOx, CO and O2 concentrations to lb/MMBTU according to the following formula: <math>\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000</math>, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: <math>(20.9\%)/(20.9\% - \text{O2 measured})</math>, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment of the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]</p>	<p>Submit a report: Annually. The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: <a href="http://www.njdeponline.com">www.njdeponline.com</a>. Instructions for submitting this report online are specified at: <a href="http://www.nj.gov/dep/aqpp/adjustment.htm">http://www.nj.gov/dep/aqpp/adjustment.htm</a>. [N.J.A.C. 7:27-19.16(d)] and [N.J.A.C. 7:27-19.16(c)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Start-up shall be defined as the period from beginning of fuel ignition until the flame of the burners reaches stabilization. The duration shall not exceed 60 consecutive minutes. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by a hour/time meter upon start-up.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter upon occurrence of event in either a readily accessible logbook or computer memories. The permittee shall record the date and duration of each start-up along with the name/initials of the person performing the monitoring. [N.J.A.C. 7:27-22.16(o)]	None.
9	Shutdown Period: Shutdown shall be defined as the beginning of fuel reduction until the total shutdown of fuel to the boiler. The duration shall not exceed 30 consecutive minutes. [N.J.A.C. 7:27-22.16(e)]	Other: Monitor by hour/time monitor upon shutdown.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter upon occurrence of event in either a readily accessible logbook or computer memories. The permittee shall record the date and duration of each shutdown along with the name/initials of the person performing the monitoring. [N.J.A.C. 7:27-22.16(o)]	None.
10	Hours of Operation While Firing Natural Gas <= 8,760 hr/yr. [N.J.A.C. 7:27-22]	Hours of Operation While Firing Natural Gas: Monitored by hour/time monitor continuously, based on a consecutive 12 month period (rolling 1 month basis) or by manually recording the start and end times of operation. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation While Firing Natural Gas: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the hours of operation for the month and the sum of the hours of operation during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
11	Maximum Gross Heat Input <= 127 MMBTU/hr (HHV) while burning Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
12	VOC (Total) <= 0.16 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	VOC (Total) <= 2.7 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	NOx (Total) <= 25.4 lb/hr. Based on revised N.J.A.C. 7:27-19.7 limit of 0.20 lb/MMBtu. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Other (provide description): As per the approved schedule. Refer to stack testing requirements specified in this permit (See, Subject Item U202 OSO Summary for detail). [N.J.A.C. 7:27-22.16(o)]



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	CO <= 42 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
16	CO <= 5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (see, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
17	TSP <= 0.57 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	CO <= 0.035 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, Subject Item U202 OSO Summary for detail). [N.J.A.C. 7:27-22.16(o)]
19	SO <sub>2</sub> <= 0.08 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	PM-10 (Total) <= 0.57 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	PM-2.5 (Total) <= 0.57 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	The owner or operator of an affected facility subject to opacity or NO <sub>x</sub> requirement is required to submit excess emission reports for any excess emissions of opacity or NO <sub>x</sub> emissions that occurred during the reporting period. [40 CFR 60.49b(h)]	None.	None.	Submit a report: Upon occurrence of event. [40 CFR 60.49b(v)]

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
23	The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel for each six-month reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)]	Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The owner or operator shall calculate the annual capacity factor for each fuel individually. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [40 CFR 60.49b(d)]	None.
24	The owner or operator of an affected facility subject to the NOx standards under 40 CFR 60.44b shall maintain records of the information described in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day. [40 CFR 60.49b(g)]	None.	None.	None.

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**Emission Unit:** U202 BOILER / UTILITY OPERATIONS**Operating Scenario:** OS9 BLDG 202-BOILER NO 4 (102 MMBTU/hr), NG

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 3.2(a)]	None.	None.	None.
2	Particulate Emissions <= 15.2 lb/hr from the combustion of fuel based on rated heat input of source and the table at N.J.A.C. 7:27-4.2. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 50 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-16.8(b)]	None.	None.	None.
4	CO <= 100 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-16.8(b)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Refer to stack testing requirements specified in this permit (See, Subject Item U202 OSO Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year.</p> <p>If the source is not operated during the quarter of the calendar year in which the annual adjustment is to be performed, the owner or operator shall perform the adjustment within seven days after the boiler or other indirect heat exchanger is next operated.</p> <p>The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16. [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]</p>	<p>Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the combustion adjustment monitoring procedures specified in NJDEP Technical Manual 1005 and the procedure at N.J.A.C. 7:27-19.16(a) as follows: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx and CO in ppmvd and O2 in percent, before and after the adjustment is made; and 6. Convert the measured emission values of NOx, CO and O2 concentrations to lb/MMBTU according to the following formula: <math>\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000</math>, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: <math>(20.9\%)/(20.9\% - \text{O2 measured})</math>, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment of the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]</p>	<p>Submit a report: Annually. The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: <a href="http://www.njdeponline.com">www.njdeponline.com</a>. Instructions for submitting this report online are specified at: <a href="http://www.nj.gov/dep/aqpp/adjustment.htm">http://www.nj.gov/dep/aqpp/adjustment.htm</a>. [N.J.A.C. 7:27-19.16(d)] and [N.J.A.C. 7:27-19.16(c)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	NOx (Total) <= 0.2 lb/MMBTU when firing oil and/or gas. [N.J.A.C. 7:27-19.7(i)]	NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
7	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
8	Shutdown Period: Shutdown shall be defined as the beginning of fuel reduction until the total shutdown of fuel to the boiler. The duration shall not exceed 30 consecutive minutes. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by hour/time meter upon shutdown.[N.J.A.C. 7:27-22.16(o)].	in either a readily accessible logbook or computer memories. The permittee shall record the date and duration of each shutdown along with the name/initials of the person performing the monitoring. Recordkeeping by manual logging of parameter upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
9	Start-up shall be defined as the period from beginning of fuel ignition until the flame of the burners reaches stabilization. The duration shall not exceed 60 consecutive minutes. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by hour/time meter upon start-up.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter upon occurrence of event in either a readily accessible logbook or computer memories. The permittee shall record the date and duration of each start-up along with the name/initials of the person performing the monitoring. [N.J.A.C. 7:27-22.16(o)]	None.
10	Maximum Gross Heat Input <= 102 MMBTU/hr (HHV) when burning Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Hours of Operation While Firing Natural Gas <= 8,760 hr/yr. [N.J.A.C. 7:27-22.16(e)]	Hours of Operation While Firing Natural Gas: Monitored by hour/time monitor continuously, based on a consecutive 12 month period (rolling 1 month basis) or by manually recording the start and end times of operation. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation While Firing Natural Gas: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the hours of operation for the month and the sum of the hours of operation during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
12	VOC (Total) <= 0.44 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	VOC (Total) <= 6.48 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	NO <sub>x</sub> (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	NO <sub>x</sub> (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, U202 OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	NO <sub>x</sub> (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Refer to stack testing requirements specified in this permit (See, U202 OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, U202 OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
15	NO <sub>x</sub> (Total) <= 20.4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NO <sub>x</sub> (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	NO <sub>x</sub> (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
16	CO <= 44 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	CO <= 5.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
18	SO2 <= 0.09 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	TSP <= 0.79 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	PM-10 (Total) <= 0.79 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	PM-2.5 (Total) <= 0.79 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	The owner or operator shall comply, as applicable, with all applicable requirements as required in 40 CFR 60.42b, 60.43b and 60.44b (NSPS Subpart Db). [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60.47b and 60.48b (NSPS Subpart Db).[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60.49b (NSPS Subpart Db).[40 CFR 60].	Comply with the requirement: As per the approved schedule The owner or operator shall comply, as applicable, with the reporting requirements as required in 40 CFR 60.49b (NSPS Subpart Db). [40 CFR 60]
23	The owner or operator of an affected facility subject to opacity or NOx requirement is required to submit excess emission reports for any excess emissions of opacity or NOx emissions that occurred during the reporting period. [40 CFR 60.49b(h)]	None.	None.	Submit a report: Upon occurrence of event. [40 CFR 60.49b(v)]
24	The owner or operator of an affected facility subject to the NOx standards under 40 CFR 60.44b shall maintain records of the information described in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day. [40 CFR 60.49b(g)]	None.	None.	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
25	The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel for each six-month reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)]	Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The owner or operator shall calculate the annual capacity factor for each fuel individually. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [40 CFR 60.49b(d)]	None.



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Emission Unit: U202 BOILER / UTILITY OPERATIONS

Operating Scenario: OS13 Emergency Air Compressor (Diesel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 1.2 lb/hr from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility.</p> <p>This emergency generator shall be operated only:</p> <p>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year;</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p>	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, and maintenance activity). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month), and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator; and</li> </ul> <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and. [N.J.A.C. 7:27-19.11]</p>	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at <a href="http://airnow.gov/">http://airnow.gov/</a>, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at <a href="http://www.state.nj.us/dep/aqpp/aqforecast">http://www.state.nj.us/dep/aqpp/aqforecast</a>; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information:  For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
8	Maximum Gross Heat Input <= 2 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
9	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	VOC (Total) <= 1.04 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	NOx (Total) <= 12.7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	CO <= 2.76 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	SO2 <= 0.84 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	TSP <= 0.84 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	The owner or operator shall comply with the General Provisions as shown in Table 8 to Subpart ZZZZ of 40 CFR 63 that apply to an existing emergency or black start CI RICE constructed or reconstructed before June 12, 2006 and located at an area source of HAP emissions except for a residential, commercial, or institutional emergency stationary RICE. [40 CFR 63.6665]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	An owner or operator of an existing stationary emergency or black start RICE must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or the owner or operator must develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]	Other: Monitored according to the manufacturer's emission-related written instructions or the maintenance plan developed by the owner or operator. [40 CFR 63.6625(e)].	Other: The owner or operator must keep records of the maintenance procedures. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.
17	The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]	Other: The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Other: The owner or operator must keep records of the maintenance procedures and replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.
18	For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year as allowed in 40 CFR 63.6640(f)(1)(iii), is prohibited. [40 CFR 63.6640(f)(1)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f)(2)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	The owner or operator may operate an emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. The owner or operator may operate an emergency RICE up to 50 hours per year in non-emergency situations as allowed by 40 CFR 63.6640(f)(1)(iii) but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. [40 CFR 63.6640(f)(1)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f)(2)]	None.
20	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall change oil and filter every 500 hours of operation or annually, whichever comes first, as prescribed in Table 2d, item 4a to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6603(a)]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the oil and filter change. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary, as prescribed in Table 2d, item 4b and 4c to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6603(a)]	Other: The owner or operator shall inspect air cleaner every 1000 hours or annually, whichever comes first and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the maintenance procedures and air cleaner, belt and hoses replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
22	The engine must be in compliance with all applicable emission limitations and operating limitations in Subpart ZZZZ of 40 CFR 63 at all times. [40 CFR 63.6605(a)]	None.	None.	None.
23	At all times the owner or operate must operate and maintain a RICE including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.

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**Emission Unit:** U202 BOILER / UTILITY OPERATIONS**Operating Scenario:** OS14 Emergency Generator (1.8 MMBtu/hr, 150 KW), NG

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 1.08 lb/hr from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.



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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at <a href="http://airnow.gov/">http://airnow.gov/</a>, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at <a href="http://www.state.nj.us/dep/aqpp/aqforecast">http://www.state.nj.us/dep/aqpp/aqforecast</a>; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.
4	Generator fuel limited to natural gas or lean burn propane. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum Gross Heat Input $\leq$ 1.8 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information:  For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
7	VOC (Total) <= 0.49 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
8	NOx (Total) <= 1.02 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
9	CO <= 2.04 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
10	PM-10 (Total) <= 0.069 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<p>The emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <ol style="list-style-type: none"> <li>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</li> <li>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</li> <li>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</li> </ol>	<p>Monitored by hour/time monitor continuously. The owner or operator shall install, calibrate and maintain a non-resettable hour meter in accordance with the manufacturer's specifications. In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Cubic Feet per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in cubic feet per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information:</p> <ol style="list-style-type: none"> <li>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (cubic feet per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</li> <li>2. For each time the emergency generator is specifically operated for testing or maintenance: <ol style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator; and</li> </ol> </li> <li>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</li> </ol> <p>The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] &amp; [N.J.A.C. 7:27-19.11]</p>	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	The Emergency Generator may be operated at other locations (within the State of New Jersey) only in the event of an emergency, as defined at N.J.A.C. 7:27-19.1. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event.</p> <p>1. For each time the emergency generator is operated at a location other than the facility for which it is originally permitted in the event of an emergency, the Permittee of the emergency generator shall record the following: i) Document the location (name of facility with address) where the emergency generator is operated; ii) Document the emergency that occurred and describe whether the emergency was due to internal or external loss of primary source of energy at the location; iii) If emergency is due to internal loss at the location, document the damages to the primary source of energy and the amount of time needed for repairs; iv) Document the date(s) of operation and the start up and shut down time on each date; v) Document the total operating time at the location based on the generator's hour meter and the total amount of fuel and fuel type used for the duration of the emergency; vi) The name and contact information of the operator of the emergency generator at the location.</p> <p>2. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The Permittee of the emergency generator shall have the above records on site within 30 days of the occurrence of the emergency event, maintain the record for a period of no less than 5 years after the record was made, and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)]</p>	Submit notification: Upon occurrence of event the Permittee of the emergency generator must submit the Recordkeeping Requirements to the Department within 30 days of the occurrence of the emergency event. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	The owner or operator shall submit an annual statement certified in accordance with N.J.A.C. 7:27-1.39 and signed by the responsible official, as defined at N.J.A.C. 7:27-1.4. The Responsible Official shall certify annually that the emergency generator is operated in compliance with all applicable requirements as defined in this permit. [N.J.A.C. 7:27-22]	None.	None.	None.
14	The owner or operator shall change the oil and filter per manufacturer's recommended procedures and maintenance schedule. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator must keep records of the date and the hour meter reading at the time of each oil and filter replacement event. All records shall be maintained for a period of no less than five years and made readily accessible to the Department upon request. [N.J.A.C. 7:27-22.16(o)].	None.
15	The owner or operator shall inspect the spark plugs per manufacturer's recommended procedures and maintenance schedule, and replace as necessary. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator must keep records of the date and the hour meter reading at the time of each spark plugs inspection and/or replacement event. All records shall be maintained for a period of no less than five years and made readily accessible to the Department upon request. [N.J.A.C. 7:27-22.16(o)].	None.
16	The owner or operator shall inspect all hoses and belts per manufacturer's recommended procedures and maintenance schedule, and replace as necessary. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator must keep records of the date and the hour meter reading at the time of each hoses/belts inspection and/or replacement event. All records shall be maintained for a period of no less than five years and made readily accessible to the Department upon request. [N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The owner or operator of the emergency stationary spark ignition internal combustion engine (SI ICE) with a maximum engine power of HP $\geq$ 130 (kW $\geq$ 100) combusting natural gas or lean burn propane, manufactured on or after January 1, 2009 must comply with the emissions standards in Table 1 of 40 CFR 60 Subpart JJJJ as follows: NO <sub>x</sub> less than or equal to 2.0 g/HP-hr, CO less than or equal to 4.0 g/HP-hr, VOC less than or equal to 1.0 g/HP-hr. (NSPS Subpart JJJJ) [40 CFR 60.4233(e)]	Other: The owner and operator shall demonstrate compliance with this requirement by purchasing an engine certified to the applicable emission standards in Table 1 to NSPS Subpart JJJJ for the same engine type and maximum engine power. [40 CFR 60.4243(b)].	Other: The owner or operator of a certified SI ICE engine must keep the USEPA certificate of conformity showing the emergency generator is certified to conform with the emission standards of NSPS Subpart JJJJ for the equipment manufacture date, maximum engine power, engine type and fuel; and the owner or operator must keep records of the maintenance conducted on the engine. [40 CFR 60.4245(a)].	None.
18	The owner or operator of stationary spark ignition internal combustion engine (SI ICE) must operate and maintain SI ICE that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. (NSPS Subpart JJJJ) [40 CFR 60.4234]	Other: Monitored by engine manufacturer data. [N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator must keep records of the documentation that the engine meets the emission standards. [40 CFR 60.4245(a)].	None.
19	Emergency stationary spark ignition internal combustion engine (SI ICE) may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. There is no time limit on the use of emergency stationary ICE in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. (NSPS Subpart JJJJ) [40 CFR 60.4243(d)]	Other: Monitored by hours of operation. The owner or operator must install a non-resettable hour meter. [40 CFR 60.4237].	Other: The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 60.4245(b)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	Owners and operators of stationary natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. (NSPS Subpart JJJJ) [40 CFR 60.4243(e)]	Other: Monitored by hours of operation. [40 CFR 60.4243(e)].	Other: The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 60.6245(b)].	None.
21	Owners and operators of all stationary spark ignition internal combustion engines (SI ICE) must keep records of the information in 40 CFR 60.4245(a)(1) through (3) as follows: All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; maintenance conducted on the engine; and for a certified engine, keep documentation from the manufacturer that the engine is certified. (NSPS Subpart JJJJ) [40 CFR 60.4245(a)]	None.	Other: The owner or operators of all SI ICE must keep records of the information in 40 CFR 60.4245(a)(1) through (3) as follows: (1) All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; (2) maintenance conducted on the engine; and (3) for a certified engine, keep documentation from the manufacturer that the engine is certified. [40 CFR 60.4245(a)].	None.
22	The owner or operator of stationary spark ignition internal combustion engine (SI ICE) shall comply with the applicable General Provisions in 40 CFR 60 Subpart A as listed in Table 3 in 40 CFR 60 Subpart JJJJ. (NSPS Subpart JJJJ) [40 CFR 60.4246]	None.	None.	None.
23	A new or reconstructed stationary reciprocating internal combustion engine (RICE) located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 Subpart JJJJ for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (MACT Subpart ZZZZ) [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS JJJJ. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS JJJJ. [40 CFR 63].	None.

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Facility Specific Requirements**

**Emission Unit:** U202 BOILER / UTILITY OPERATIONS**Operating Scenario:** OS15 BLDG 202 - TURBINE OPERATING IN COGEN MODE (99.5 MMBTU/hr), NG, OS16 BLDG 202 - DUCT BURNER OPERATING IN COGEN MODE (96.2 MMBTU/hr), NG

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow or permit smoke the shade or appearance of which is darker than number 1 on the Ringelmann smoke chart or greater than 20 percent opacity, exclusive of visible condensed water vapor, to be emitted into the outdoor air from the combustion of fuel in any stationary internal combustion engine or any stationary turbine engine for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 19.85 lb/hr from the combustion of fuel based on the combined rated heat input of the turbine and duct burner and the table at N.J.A.C. 7:27-4.2. [N.J.A.C. 7:27- 4.2]	None.	None.	None.
3	VOC (Total) <= 50 ppmvd @ 15% O <sub>2</sub> . [N.J.A.C. 7:27-16.9(c)]	VOC (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs , each performed over a consecutive 60-minute period specified by the Department. [N.J.A.C. 7:27-16.23(a)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
4	CO <= 250 ppmvd @ 15% O <sub>2</sub> . [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs , each performed over a consecutive 60-minute period specified by the Department. [N.J.A.C. 7:27-16.23(a)2]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Cogen Turbine: Adjust the combustion process in accordance with procedures set forth at N.J.A.C. 7:27-19.16 and according to manufacturer's recommended procedures and maintenance schedules. [N.J.A.C. 7:27-19.5(e)]	Monitored by periodic emission monitoring upon performing combustion adjustment. Monitoring shall be performed in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005. [N.J.A.C. 7:27-19.16]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment. The owner or operator shall record the following information for each adjustment and retain it for a minimum of five years:  1. The date of the adjustment and the times at which it began and ended;  2. The name, title and affiliation of the person who made the adjustment;  3. The type of procedure and maintenance performed;  4. The concentration of NO <sub>x</sub> , CO and O <sub>2</sub> measured before and after the adjustment was made; and  5. The type and amount of fuel used over the 12 months prior to the adjustment. [N.J.A.C. 7:27-19.16(h)]	None.
6	Opacity <= 10 % (exclusive of visible condensed water vapor), except during start-up and shutdown periods. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Only natural gas shall be fired in the combustion turbine and duct burner when operating. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Duct Burner Maximum Gross Heat Input <= 96.2 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate. [N.J.A.C. 7:27-22.16(o)].	None.
9	Duct Burner cannot operate independently of combustion turbine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Combustion Turbine Maximum Gross Heat Input <= 99.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	VOC (Total) <= 15 ppmvd @ 15% O2 for combined turbine and duct burner operation. [N.J.A.C. 7:27-22.16(a)]	None.	VOC (Total): Recordkeeping by stack test results upon occurrence of event. Keep the initial stack test results performed on 4/1/2013. [N.J.A.C. 7:27-22.16(o)]	None.
12	VOC (Total) <= 3.9 lb/hr for combined turbine and duct burner operation. [N.J.A.C. 7:27-22.16(a)]	None.	VOC (Total): Recordkeeping by stack test results upon occurrence of event. Keep the initial stack test results performed on 4/1/2013. [N.J.A.C. 7:27-22.16(o)]	None.
13	NOx (Total) <= 3.5 lb/hr for combined turbine and duct burner operation. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results annually Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
14	NOx (Total) <= 5 ppmvd @ 15% O2 for combined turbine and duct burner operation. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results annually Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
15	CO <= 6.7 lb/hr for combined turbine and duct burner operation. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results annually Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
16	CO <= 15 ppmvd @ 15% O2 for combined turbine and duct burner operation. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results annually Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
17	SO2 <= 1.4 lb/hr for combined turbine and duct burner operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	TSP <= 4.3 lb/hr for combined turbine and duct burner operation. [N.J.A.C. 7:27-22.16(a)]	None.	TSP: Recordkeeping by stack test results upon occurrence of event. Keep the initial stack test results performed on 4/1/2013. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	PM-10 (Total) $\leq$ 4.3 lb/hr for combined turbine and duct burner operation. [N.J.A.C. 7:27-22.16(a)]	None.	PM-10 (Total): Recordkeeping by stack test results upon occurrence of event. Keep the initial stack test results performed on 4/1/2013. [N.J.A.C. 7:27-22.16(o)]	None.
20	PM-2.5 (Total) $\leq$ 4.3 lb/hr for combined turbine and duct burner operation. [N.J.A.C. 7:27-22.16(a)]	None.	PM-2.5 (Total): Recordkeeping by stack test results upon occurrence of event. Keep the initial stack test results performed on 4/1/2013. [N.J.A.C. 7:27-22.16(o)]	None.
21	Ammonia $\leq$ 1.29 lb/hr for combined turbine and duct burner operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Ammonia Slip $\leq$ 5 ppmvd @ 15% O <sub>2</sub> for combined. [N.J.A.C. 7:27-22.16(a)]	Ammonia Slip: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Ammonia Slip: Recordkeeping by stack test results annually. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.18(o)]
23	Ammonia Flow Rate to SCR $\geq$ 3.96 and Ammonia Flow Rate to SCR $\leq$ 29 lb/hr (19% ammonium hydroxide solution in water). [N.J.A.C. 7:27-22.16(a)]	Ammonia Flow Rate to SCR: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Ammonia Flow Rate to SCR: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. All records created in a calendar year shall be maintained on site for five additional calendar years, and made available to the Department for review, upon request. [N.J.A.C. 7:27-22.16(o)]	None.
24	Formaldehyde $\leq$ 0.14 lb/hr for combined turbine and duct burner operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Temperature at Catalyst Bed $\geq$ 500 and Temperature at Catalyst Bed $\leq$ 780 degrees F. [N.J.A.C. 7:27-22.16(a)]	Temperature at Catalyst Bed: Monitored by temperature instrument continuously, based on a 1 hour block average. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-22.16(o)]	Temperature at Catalyst Bed: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. All records created in a calendar year shall be maintained on site for five additional calendar years, and made available to the Department for review, upon request. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	The catalyst array(s) shall be maintained and replaced in accordance with the recommendations of the manufacturer, and as necessary based on emission levels indicated through continuous/portable emission monitoring or parametric monitoring. [N.J.A.C. 7:27-22.16(a)]	Monitored by periodic emission monitoring at the manufacturer's specified frequency, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
27	The SCR with the CO catalyst shall be operated at all times that the turbine is operating. Reagent shall be injected at all times that the turbine is operating, except start-up or shutdown periods. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
28	Start-up shall be defined as the period of time from initiation of Cogen operation until the unit reaches a steady state of $\geq 50\%$ base load and the SCR catalyst bed temperature has reached 500 degrees Fahrenheit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
29	Shutdown is defined as the period of time from the initial lowering of Cogen output below 50% of the base load until fuel flow is completely off and combustion has ceased. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
30	The owner or operator shall comply with all applicable requirements as required in 40 CFR 60.4300 et.seq. (NSPS Subpart KKKK) for the turbine and duct burner. [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60.4300 et.seq. (NSPS Subpart KKKK) for the turbine and duct burner. (U202 OS15 and OS16).[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60.4300 et.seq. (NSPS Subpart KKKK) for the turbine and duct burner. (U202 OS15 and OS16).[40 CFR 60].	Comply with the requirement: As per the approved schedule the owner or operator shall comply, as applicable, with the submittal/action requirements as required in 40 CFR 60.4300 et.seq. (NSPS Subpart KKKK) for the turbine and duct burner. (U202 OS15 and OS16). [40 CFR 60]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	NO <sub>x</sub> (Total) ≤ 25 ppmvd @ 15% O <sub>2</sub> . This limit applies to a turbine that has heat input at peak load greater than 50 MMBtu/hr (HHV) but less or equal to 850 MMBtu/hr (HHV) firing natural gas and which commenced construction after February 18, 2005. As an alternative, the permittee may demonstrate compliance with the output based emission limit of 1.2 lb/MW-hr of useful output. [40 CFR 60.4320(a)]	NO <sub>x</sub> (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. The owner or operator shall conduct an initial performance test as required in 40 CFR 60.8. The subsequent testing shall only be conducted if choosing to comply with 40 CFR 60.4340(a). Test methods and procedures shall be consistent with the requirements of 40 CFR 60.4400 or, if a NO <sub>x</sub> diluent CEMS is installed, consistent with 40 CFR 60.4405. The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Alternatively, the testing might be performed at the highest achievable load point, if at least 75 percent of peak load cannot be achieved in practice. For turbines with supplemental duct burner NO <sub>x</sub> measurements shall be taken after the duct burner, which has to be in operation during the performance test. [40 CFR 60.4400]	NO <sub>x</sub> (Total): Recordkeeping by stack test results annually. [40 CFR 60.4460]	Submit a report: As per the approved schedule. The owner or operator shall submit a written report of the results of each performance test before the close of business on the 60th day following the completion of the performance test. [40 CFR 60.4375(b)]
32	SO <sub>2</sub> ≤ 0.06 lb/MMBTU. No owner or operator shall burn any fuel which contains total potential sulfur emissions in excess of specified limit. If the turbine simultaneously fires multiple fuels, each fuel must meet this requirement. [40 CFR 60.4330(a)(2)]	Other: The permittee shall demonstrate that the potential sulfur emissions from each type of fuel do not exceed potential sulfur emissions of 0.060 lb SO <sub>2</sub> per MMBtu heat input using sources of information listed in 40 CFR 60.4365(a) or perform representative fuel sampling as described in 60.4365(b). [40 CFR 60.4365].	None.	Submit documentation of compliance: Once initially. The permittee shall furnish the Administrator and NJDEP a written report of the results. The permittee shall demonstrate that the potential sulfur emissions from each type of fuel do not exceed potential sulfur emissions of 0.060 lb SO <sub>2</sub> per MMBtu heat input using sources of information listed in 40 CFR 60.4365(a) or perform representative fuel sampling as described in 60.4365(b). [40 CFR 60.8(a)]
33	The owner or operator shall operate and maintain the subject stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown and malfunction. [40 CFR 60.4333(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
34	To demonstrate continuous compliance with NOx limit, the owner or operator of the turbine that does not use water or steam injection shall perform annual performance NOx tests in accordance with 40 CFR 60.4400. If the NOx test result is less than or equal to 75% of the NOx emission limit the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of the NOx limit, an annual performance testing must be resumed. [40 CFR 60.4340(a)]	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. Test methods and procedures shall be consistent with the requirements of 40 CFR 60.4400 . [40 CFR 60.4400]	Recordkeeping by stack test results annually. [40 CFR 60.4400]	None.
35	The owner or operator may elect not to monitor the total sulfur content of the fuel combusted in the turbine if the fuel is demonstrated not to exceed potential sulfur emissions of 0.060 lb SO <sub>2</sub> /MMBtu heat input for units located in continental areas. [40 CFR 60.4365]	Other: The required demonstration that the total sulfur content of the fuel does not exceed potential sulfur emissions of 0.060 lb SO <sub>2</sub> /MMBtu shall be made using a current valid purchase contract, tariff sheet or transportation contract specifying that in continental areas the maximum total sulfur content for oil use is 0.05 weight percent (500 ppmw) and for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet. [40 CFR 60.4365(a)].	Recordkeeping by fuel certification receipts at the approved frequency The owner or operator shall keep copies of valid purchase contracts, tariff sheets or transportation contracts specifying that in continental areas the maximum total sulfur content for oil use is 0.05 weight percent (500 ppmw) and for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet. [40 CFR 60.4365]	Demonstrate compliance: Once initially. The owner or operator shall submit the required determination to the Administrator using the sources of information described in 40 CFR 60.4365(a) showing the maximum total sulfur content for continental areas for oil use at 0.05 weight percent or less and for natural gas at 20 grains of sulfur or less per 100 standard cubic feet or to demonstrate that fuel has potential sulfur emissions of less than 0.060 lb SO <sub>2</sub> /MMBtu heat input. [40 CFR 60.4365(a)]

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**Emission Unit:** U202 BOILER / UTILITY OPERATIONS**Operating Scenario:** OS17 BLDG 202 - TEMPORARY BOILER (94.7 MMBTU/HR)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions. As specified in N.J.A.C. 7:27-3.2(c), this provision does not apply to smoke which is visible for a period of time of not longer than three (3) minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 3.2(a)]	None.	None.	None.
2	Particulate Emissions <= 14.7 lb/hr from the combustion of fuel based on rated heat input of source and the table at N.J.A.C. 7:27-4.2. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 50 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-16.8(b)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
4	CO <= 100 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-16.8(b)]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
5	NO <sub>x</sub> (Total) <= 0.12 lb/MMBTU when firing oil and/or gas. [N.J.A.C. 7:27-19.7(i)]	NO <sub>x</sub> (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	NO <sub>x</sub> (Total): Recordkeeping by stack test results once initially. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year.</p> <p>If the source is not operated during the quarter of the calendar year in which the annual adjustment is to be performed, the owner or operator shall perform the adjustment within seven days after the boiler or other indirect heat exchanger is next operated.</p> <p>The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16. [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]</p>	<p>Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the combustion adjustment monitoring procedures specified in NJDEP Technical Manual 1005 and the procedure at N.J.A.C. 7:27-19.16(a) as follows: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx and CO in ppmvd and O2 in percent, before and after the adjustment is made; and 6. Convert the measured emission values of NOx, CO and O2 concentrations to lb/MMBTU according to the following formula: <math>\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000</math>, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: <math>(20.9\%)/(20.9\% - \text{O2 measured})</math>, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment of the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]</p>	<p>Submit a report: Annually. The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: <a href="http://www.njdeponline.com">www.njdeponline.com</a>. Instructions for submitting this report online are specified at: <a href="http://www.nj.gov/dep/aqpp/adjustment.htm">http://www.nj.gov/dep/aqpp/adjustment.htm</a>. [N.J.A.C. 7:27-19.16(d)] and [N.J.A.C. 7:27-19.16(c)]</p>



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
8	Maximum Gross Heat Input <= 94.7 MMBTU/hr (HHV) burning Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
9	Natural Gas Usage <= 118 MMft <sup>3</sup> /yr. Fuel use cap to avoid the advances in the art of air pollution control requirement at N.J.A.C 7:27-22.35. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the fuel usage for the month and the sum of the fuel usage during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
10	Hours of Operation <= 1,275 hr/yr. Hours of operation cap to avoid the advances in the art of air pollution control requirement at N.J.A.C 7:27-22.35. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously, based on a consecutive 12 month period (rolling 1 month basis) or by manually recording the start and end times of operation. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the hours of operation for the month and the sum of the hours of operation during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
11	VOC (Total) <= 0.38 lb/hr based on emission factors from vendor specifications. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	NOx (Total) <= 3.41 lb/hr based on emission factors from vendor specifications. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
13	CO <= 7.01 lb/hr based on vendor data. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. Refer to stack testing requirements specified in this permit (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to stack testing requirements specified in this permit. (See, OS Summary for detail). [N.J.A.C. 7:27-22.16(o)]
14	SO2 <= 0.06 lb/hr based on emission factors from AP-42, Chapter 1.4, Table 1.4-2. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	TSP <= 0.01 lb/hr based on emission factors from vendor specifications. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Keep the record of calculations.[N.J.A.C. 7:27-22.16(o)].	None.
16	Arsenic compounds <= 0.0000186 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	Arsenic compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Keep the record of calculations.[N.J.A.C. 7:27-22.16(o)].	None.
17	Cadmium compounds <= 0.000102 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(o)]	Cadmium compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Keep the record of calculations.[N.J.A.C. 7:27-22.16(o)].	None.
18	Cobalt compounds <= 0.0000078 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	Cobalt compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Keep the record of calculations.[N.J.A.C. 7:27-22.16(o)].	None.
19	Dimethylbenz(a)anthracene (7,12-) <= 0.00000149 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	Dimethylbenz(a)anthracene (7,12-): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Keep the record of calculations.[N.J.A.C. 7:27-22.16(o)].	None.
20	Formaldehyde <= 0.00696 lb/hr based on AP-42. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Keep the record of calculations.[N.J.A.C. 7:27-22.16(o)].	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
21	The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7. This notification shall include information specified in 40 CFR 60.48c(a)1 through (a)4. [40 CFR 60.48c(a)]	None.	None.	Submit a report: Upon occurrence of event. [40 CFR 60.48c(a)]
22	The owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f), fuels not subject to an emission standard (excluding opacity), or a mixture of these fuels shall record and maintain records of the amount of each fuel combusted during each calendar month. [40 CFR 60.48c(g)(2)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [40 CFR 60.48c(g)(2)]	None.

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Facility Specific Requirements**

**Emission Unit:** U209 DRY POWDERS**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. Applies to PT209001 thru PT209012. From BOP080004. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	Opacity: Monitored by visual determination each month during operation. When the permittee operates scenarios or equipment that are uncontrolled for the emission of particulates, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions (other than condensed water vapor). During the operation of uncontrolled equipment. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual logging or electronic data storage of observations, monthly.[N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. From BOP080004. [N.J.A.C. 7:27-22.16(a)]	<p>Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes:</p> <p>(1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected</p> <p>The permittee shall visually observe PT209001, PT209003, PT209005, PT209007, and PT209008 monthly when the control devices (CD209001 thru CD209006) are operating. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following:</p> <p>(1) Date and time of inspection;  (2) Emission Point number;  (3) Operational status of equipment;  (4) Observed results and conclusions;  (5) Description of corrective action taken if needed;  (6) Date and time opacity problem was solved, if applicable;  (7) N.J.A.C. 7:27B-2 results if conducted; and  (8) Name of person(s) conducting inspection</p> <p>Recordkeeping once per month during operation for each emission point (PT209001, PT209003, PT209005, PT209007 and PT209008). [N.J.A.C. 7:27-22.16(o)]</p>	None.
3	Carbon Dioxide <= 5,005 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 3.39 tons/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	PM-10 (Total) <= 13.2 tons/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	CO <= 0.46 tons/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	TSP <= 13.2 tons/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Raw Material/Air Contaminant List: Non-HAP Particulates and Products of Fuel Combustion.  Maximum raw material throughput is as follows:  Spray Dry/Spray Chill Step (OS209001 thru OS209003) >= 7,500 kg/batch; Premix Step (OS209004-OS209009) >= 4,500 kg/batch; Blends Step (OS209010-OS209016) >= 4,500 kg/batch; and Trits/Uniformity Blending (OS209017) >= 1,500 kg/batch. [N.J.A.C. 7:27-22.16(o)]	Other: Monitored by production records. Once per batch during operation. Applies to OS209002, OS209003, OS209008, OS209009, OS209013, OS209016 and OS209017.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. Applies to OS209002, OS209003, OS209008, OS209009, OS209013, OS209016 and OS209017. [N.J.A.C. 7:27-22.16(o)]	None.
9	Flowrate >= 3 and Flowrate <= 10 gal/min for Scrubber S708 (CD209002). [N.J.A.C. 7:27-22.16(o)]	Other: Monitored by flow rate instrument continuously.[N.J.A.C. 7:27-22.16(o)].	Flowrate: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. In the event that the flow rate measurement drops below the minimum required flow rate, the permittee may comply with the requirement by calculating a 15-minute block average.  In lieu of continuous recordkeeping, the permittee may manually log the parameter, once per calendar day during operation, in either a readily accessible log book or computer memories. The permittee shall record the date, time, flow rate, and name/initials of the person performing the monitoring. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Spray Dry/Spray Chill Step (OS209001 thru OS209003): The annual process throughput shall not exceed 6,000 metric tons/yr. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by production records each month during operation.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter each month during operation in either a readily accessible log book or computer memories. The permittee shall record the monthly and year to date process throughput for Spray Dry/Spray Chill Step. [N.J.A.C. 7:27-22.16(o)]	None.
11	Premix Step (OS209004-OS209009): The annual process throughput shall not exceed 3,000 metric tons/yr. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by production records each month during operation.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter each month during operation in either a readily accessible log book or computer memories. The permittee shall record the monthly and year to date process throughput for Premix Step. [N.J.A.C. 7:27-22.16(o)]	None.
12	Blends Step (OS209010-OS209016): The annual process throughput shall not exceed 15,000 metric tons/yr. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by production records each month during operation.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter each month during operation in either a readily accessible log book or computer memories. The permittee shall record the monthly and year to date process throughput for Blends Step. [N.J.A.C. 7:27-22.16(o)]	None.
13	Trits/Uniformity Blending (OS209017 & OS209018): The annual process throughput shall not exceed 1,300 metric tons/yr. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by production records each month during operation.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter each month during operation in either a readily accessible log book or computer memories. The permittee shall record the monthly and year to date process throughput for Trits/Uniformity Blending. [N.J.A.C. 7:27-22.16(o)]	None.

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**Emission Unit: U209 DRY POWDERS****Operating Scenario: OS209001 SPRY DRY/ CHILL: SPRAY DRYER D-701& PRODUCT COLLECTION CYCLONE S-705 & S-706**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Gross Heat Input <= 5 MMBTU/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
2	Propane: The permittee may burn 484,000 gallons of propane in one calendar year. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by delivery slips or tank levels, monthly.[N.J.A.C. 7:27-22.16(o)].	Propane: Recordkeeping by manual logging of parameter annually in either a readily accessible log book or computer memories. [N.J.A.C. 7:27-22.16(o)]	None.
3	TSP <= 0.42 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 0.42 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 0.1 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	NOx (Total) <= 0.77 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.



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Emission Unit: U209 DRY POWDERS  
Operating Scenario: OS209004 PREMIX: SMALL NAUTA M-401

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit:** U209 DRY POWDERS**Operating Scenario:** OS209005 PREMIX: LARGE NAUTA M-506

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit: U209 DRY POWDERS****Operating Scenario: OS209006 PREMIX: PACKAGING 1**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit:** U209 DRY POWDERS**Operating Scenario:** OS209007 PREMIX: PACKAGING 2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit: U209 DRY POWDERS****Operating Scenario: OS209010 BLENDS: DUMP STATION T-107 VENTING TO DUST COLLECTOR X105**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit:** U209 DRY POWDERS**Operating Scenario:** OS209014 BLENDS: BULK STORAGE SILO 209T0101

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.2 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.2 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit:** U209 DRY POWDERS**Operating Scenario:** OS209015 BLENDS: SURGE HOPPER 209T0103

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.1 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.1 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit:** U209 DRY POWDERS**Operating Scenario:** OS209020 Material Transfer

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Control Efficiency > 99.9 % for CD209010 and CD209011. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	OS209020 will vented through particulate control devices at all times. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



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**Emission Unit:** U209 DRY POWDERS**Operating Scenario:** OS209021 Material Transfer

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Control Efficiency > 99.9 % for CD209011. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	OS209021 will vented through particulate control devices at all times. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Pressure Drop: Gauge reading within "green zone" for Particulate Filter CD209011. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U209 DRY POWDERS**Operating Scenario:** OS209022 Material Transfer, OS209023 Material Transfer, OS209024 Material Transfer

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Control Efficiency > 99.9 % for CD209012. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	OS209022, OS209023 and OS209024 will vented through particulate control devices at all times. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Pressure Drop >= 0.3 and Pressure Drop <= 8 inches w.c. for Particulate Filter CD209012. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U212 WASTEWATER TREATMENT PLANT

**Operating Scenario:** OS Summary

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall not emit any VOC into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16.16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). Per N.J.A.C. 7:27-17.4(c), Group II TXS shall be treated as VOC for N.J.A.C. 7:27-16.16 applicability. [N.J.A.C. 7:27-17.4(c)] and [N.J.A.C. 7:27-16.16(c)]	Monitored by calculations once initially and before processing any stream with different composition. The maximum allowable emission rate shall be determined in accordance with the procedures identified in N.J.A.C. 7:27-16.16(d). The permittee shall also compare the actual emissions to the calculated emissions. [N.J.A.C. 7:27-16.16] and. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain the following records for each different process for which the source operation is used: 1) Record the information determined in accordance with the Procedure for Using N.J.A.C. 7:27-16 Table 16A in N.J.A.C. 7:27-16.16(c): the chemical name and vapor pressure of each VOC/Group II TXS used, the percent concentration by volume of VOC/Group II TXS in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate; also record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. OR 2) Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the total VOC and Group II TXS emissions after any control, the total VOC and Group II TXS emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the total VOC and Group II TXS emission rate of the source operation from actual operations does not exceed the total VOC and Group II TXS emission rate under worst case operating conditions. OR 3) The permittee shall document if actual emission exceeds calculated limit anytime. [N.J.A.C. 7:27-16.16(g)] and. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate for each source as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	None.	None.	None.
3	The owner or operator shall conduct a test to determine Total VOCs in the influent wastewater based on the VOCs used/generated onsite. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall take a representative 24-hour composite sample(s) of the influent wastewater prior to entering the wastewater treatment plant at a minimum of 4 times per month during production. A lab analysis of the sample shall be performed for those VOC's used/generated on site.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter at the approved frequency in either a readily accessible log book or computer memories. 4 times a month. [N.J.A.C. 7:27-22.16(o)]	None.
4	Maximum Daily Flow Rate <= 4.0 million gallons per day. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by flow monitor continuously pursuant to the facility's wastewater treatment system. The monitor(s) shall meet the specifications of N.J.A.C. 7:14A et. seq.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping manual or electronic logging of parameter once per day during operation in either a readily accessible log book or computer memories.[N.J.A.C. 7:27-22.16(o)].	None.
5	VOC (Total) <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: VOC emissions shall be calculated using Water 9 or the most recent EPA approved model based on the flow rate and the monthly average using a minimum of 1 sample/week and a minimum of 4 samples/month. Monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Manually or electronically log the water sample analysis and calculations in a logbook or electronically (computer, DAS, or electronic operating system). Once per month. Calculate the tons of emissions for the month. In a calendar year, the permittee shall add the current month's tons of emissions to the previous month's tons of emission to calculate the year-to-date tons of emissions.[N.J.A.C. 7:27-22.16(o)].	None.
6	Emissions of all other air contaminants not listed in this subject item, including HAPs, are below the respective reporting thresholds per N.J.A.C. 7:27-22, Appendix Tables A and B. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

**Emission Unit:** U212 WASTEWATER TREATMENT PLANT**Operating Scenario:** OS212001 WASTEWATER TREATMENT PLANT: PRE-CLARIFIER TANK

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.11 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U212 WASTEWATER TREATMENT PLANT**Operating Scenario:** OS212003 WASTEWATER TREATMENT PLANT: FIRST STAGE AERATION TANKS 3 THRU 6

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.4 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U212 WASTEWATER TREATMENT PLANT**Operating Scenario:** OS212006 WASTEWATER TREATMENT PLANT: AEROBIC DIGESTER TANK 1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.913 lb/hr. Maximum combined emission rate for OS212006 and OS212007. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.



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Facility Specific Requirements**

**Emission Unit:** U212 WASTEWATER TREATMENT PLANT**Operating Scenario:** OS212007 WASTEWATER TREATMENT PLANT: AEROBIC DIGESTER TANK 2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.913 lb/hr. Maximum combined emission rate for OS212006 and OS212007. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

**Emission Unit:** U212 WASTEWATER TREATMENT PLANT**Operating Scenario:** OS212013 WASTEWATER TREATMENT PLANT: POLISHING POND 1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.09 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

**Emission Unit:** U212 WASTEWATER TREATMENT PLANT**Operating Scenario:** OS212014 WASTEWATER TREATMENT PLANT: POLISHING POND 2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.09 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Emission Unit: U218 TANK FARM

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow or permit sulfur compounds in the form of gases, vapors or liquid particulates to be discharged from any stack or chimney into the outdoor atmosphere except as provided in N.J.A.C. 7:27-7 et. seq. [N.J.A.C. 7:27-7.2(a)]	None.	None.	None.
2	Whenever the discharge from a stack or chimney includes SO <sub>3</sub> and H <sub>2</sub> SO <sub>4</sub> , the combined quantity of SO <sub>3</sub> and H <sub>2</sub> SO <sub>4</sub> discharged in any 60-minute period, when converted and expressed as H <sub>2</sub> SO <sub>4</sub> , shall not exceed 1.4 lbs/hr and at any instant the maximum rate of emission expressed in pounds per hour shall not exceed twice the allowable emission. [N.J.A.C. 7:27-7.2(g)2]	None.	None.	None.
3	Whenever the discharge from a stack or chimney includes SO <sub>3</sub> and H <sub>2</sub> SO <sub>4</sub> , the combined concentration of SO <sub>3</sub> and H <sub>2</sub> SO <sub>4</sub> , in the gases being discharged, when converted and expressed as H <sub>2</sub> SO <sub>4</sub> , shall not exceed ten milligrams per cubic foot at standard conditions. [N.J.A.C. 7:27-7.2(g)1]	None.	None.	None.
4	The permittee shall maintain records specifying VOC stored and vapor pressure of VOC at standard conditions for each tank. [N.J.A.C. 7:27-16.2(k)]	Other: Monitor tank contents.[N.J.A.C. 7:27-22.16(o)].	Other: Manually log the tank contents, vapor pressure, and date tank contents (material) was replaced or added to the tank in a readily accessible log book or electronically (computer, DAS, or electronic operating system). [N.J.A.C. 7:27-16.2(k)] and[N.J.A.C. 7:27-22.16(o)].	None.
5	No visible emissions exclusive of visible water vapor except for three (3) minutes in any consecutive 30-minute period. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The permittee shall transfer VOCs in the storage tanks through a submerged fill pipe or equivalent. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
7	The permittee shall paint and maintain the external surface of the tanks containing VOCs white if exposed to sunlight. [N.J.A.C. 7:27-16.2(a)1]	None.	None.	None.
8	Vapor Pressure <= 1 psia @ 70 degrees F in tanks E218004 (T-9886) & E218005 (T-9887). Storage tank may store any non-HAP materials (as defined in 40 CFR 63.1 (a)(2)). Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	Other: Monitor Vapor Pressure based on documented material properties.[N.J.A.C. 7:27-22.16(o)].	Other: Manually log the tank contents, vapor pressure, and date tank contents (material) was replaced or added to the tank per delivery in a readily accessible logbook or electronically (computer, DAS, or electronic operating system).[N.J.A.C. 7:27-22.16(o)].	None.
9	Vapor Pressure <= 0.02 psia @ 70 degrees F in tanks E218011 (T-9917), and E218012 (T-953). Storage tanks may store any non-VOC or non-HAP materials (as defined in 40 CFR 63.1 (a)(2)). Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor Vapor Pressure based on documented material properties.[N.J.A.C. 7:27-22.16(o)].	Other: Manually log the tank contents, vapor pressure, and date tank contents (material) was replaced or added to the tank per delivery in a readily accessible logbook or electronically (computer, DAS, or electronic operating system).[N.J.A.C. 7:27-22.16(o)].	None.
10	Non-HAP materials (as defined in 40 CFR 63.1(a)(2)) with a vapor pressure <= 4 psia @ 70 degrees F annual throughput <= 1,592,000 gal/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in either a readily accessible log book or computer memories. The permittee shall record the monthly and year to date throughput. [N.J.A.C. 7:27-22.16(o)]	None.
11	Non-HAP VOC (as defined in 40 CFR 63.1(a)(2)) with a vapor pressure <= 1 psia @ 70 degrees F annual throughput <= 365,192 gal/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in either a readily accessible log book or computer memories. The permittee shall record the monthly and year to date throughput. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Non-VOC and Non-HAP VOC (as defined in 40 CFR 63.1(a)(2)) with a vapor pressure $\leq 0.02$ psia @ 70 degrees F annual throughput $\leq 4,936,000$ gal/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in either a readily accessible log book or computer memories. The permittee shall record the monthly and year to date throughput. [N.J.A.C. 7:27-22.16(o)]	None.
13	VOC (Total) $\leq 3.22$ tons/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	Sulfuric Acid $\leq 0.32$ tons/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	Emissions of all other air contaminants not listed in this Operating Scenario including HAPs are below the respective reporting thresholds per N.J.A.C 7:27-22 Appendix Tables A & B. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection  
Facility Specific Requirements

Emission Unit: U222 DERIVATIVES OF VITAMIN C  
Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	<p>Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes:</p> <p>(1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected</p> <p>The permittee shall visually observe PT222001, PT222003, PT222004, PT22206, PT222008, PT222010 thru PT222012, and PT222015 monthly when the control devices (CD222001, CD222003 thru CD222005, CD222007, CD222009, CD222011 thru CD222013, and CD222019) are operating. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following:</p> <p>(1) Date and time of inspection;  (2) Emission Point number;  (3) Operational status of equipment;  (4) Observed results and conclusions;  (5) Description of corrective action taken if needed;  (6) Date and time opacity problem was solved, if applicable;  (7) N.J.A.C. 7:27B-2 results if conducted; and  (8) Name of person(s) conducting inspection</p> <p>Recordkeeping once per month during operation for each emission point (PT222001, PT222003, PT222004, PT22206, PT222008, PT222010 thru PT222012, and PT222015). [N.J.A.C. 7:27-22.16(o)]</p>	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The permittee shall not emit any VOC into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16.16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). Per N.J.A.C. 7:27-17.4(c), Group II TXS shall be treated as VOC for N.J.A.C. 7:27-16.16 applicability. [N.J.A.C. 7:27-17.4(c)] and [N.J.A.C. 7:27-16.16(c)]	Monitored by calculations once initially and before processing any stream with different composition. The maximum allowable emission rate shall be determined in accordance with the procedures identified in N.J.A.C. 7:27-16.16(d). The permittee shall also compare the actual emissions to the calculated emissions. [N.J.A.C. 7:27-16.16] and. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain the following records for each different process for which the source operation is used: 1) Record the information determined in accordance with the Procedure for Using N.J.A.C. 7:27-16 Table 16A in N.J.A.C. 7:27-16.16(c): the chemical name and vapor pressure of each VOC/Group II TXS used, the percent concentration by volume of VOC/Group II TXS in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate; also record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. OR 2) Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the total VOC and Group II TXS emissions after any control, the total VOC and Group II TXS emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the total VOC and Group II TXS emission rate of the source operation from actual operations does not exceed the total VOC and Group II TXS emission rate under worst case operating conditions. OR 3) The permittee shall document if actual emission exceeds calculated limit anytime. [N.J.A.C. 7:27-16.16(g)] and. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate for each source as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.
5	Emissions of all other air contaminants not listed under this Subject Item including HAPs are below the respective reporting thresholds in N.J.A.C. 7:27-22 Appendix Tables A & B. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Ethyl alcohol <= 13.3 tons/yr. Surrogate for VOC (Total). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Hydrocarbon concentration for stack PT222014 <= 608 ppmv as ethanol. [N.J.A.C. 7:27-22.16(a)]	Monitored by periodic emission monitoring each month during operation, based on a 1 hour block average using equipment approved by NJDEP's Emission Measurement Section. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by Manual logging or data acquisition system (DAS)/ electronic data storage in either a logbook or readily accessible computer memories. Monthly during operation.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Within 90 days from the date of the approved permit submit a periodic monitoring protocol to the Department for review and approval. The protocol shall be submitted to EMS and include monitoring, calibration and recordkeeping methods. Monitoring shall be conducted in accordance with the EMS approved protocol. [N.J.A.C. 7:27-22.16(o)]
8	TSP <= 19.2 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	PM-10 (Total) <= 19.2 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	The annual process throughput shall not exceed 122,000 metric tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records. Monthly.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter each month during operation in either a readily accessible logbook or computer memories. The permittee shall record the monthly and year to date total process throughput for Unit 222. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<p>Raw Material/Air Contaminant List: Non-HAP Particulate, VOCs</p> <p>Maximum raw material throughput in pounds per hour is as follows:</p> <p>Non-HAP material throughput <math>\leq</math> 8 metric tons/hr per operating scenario. Applies to OS222001 thru OS222017;</p> <p>Non-HAP material throughput <math>\leq</math> 6 metric tons/hr per operating scenario. Applies to OS222018 thru OS222023;</p> <p>Non-HAP material throughput <math>\leq</math> 8 metric ton/hr per operating scenario. Applies to OS222024 thru OS222034 ;</p> <p>Non-HAP material throughput <math>\leq</math> 1 metric ton/hr per operating scenario. Applies to OS2220043 thru OS222048; and</p> <p>Non-HAP material throughput <math>\leq</math> 1 metric ton/hr per operating scenario. Applies to OS222035 thru OS222042. [N.J.A.C. 7:27-22.16(a)]</p>	None.	None.	None.
12	<p>Scrubbing Medium Flow Rate <math>\geq</math> 5 gal/min for Scrubber C201 (CD222018). [N.J.A.C. 7:27-22.16(e)]</p>	Other: Monitored by flow rate instrument continuously.[N.J.A.C. 7:27-22.16(o)].	<p>Other: Recordkeeping by electronic data storage continuously. In the event that the flow rate measurement drops below the minimum required flow rate, the permittee may comply with this requirement by calculating a 15-minute block average.</p> <p>In lieu of continuous recordkeeping, the permittee may manually log the parameter, once per calendar day during operation, in a readily accessible logbook or computer memories. The permittee shall record the date, time, flow rate, and name/initials of the person performing the monitoring.[N.J.A.C. 7:27-22.16(o)].</p>	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	VOC (Total) <= 13.3 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U222 DERIVATIVES OF VITAMIN C**Operating Scenario:** OS222013 DERIVATIVES: CONE BLENDER (M101 )

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.209 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.209 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U222 DERIVATIVES OF VITAMIN C**Operating Scenario:** OS222014 DERIVATIVES: DUMP STATION (X108)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.3 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.3 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U222 DERIVATIVES OF VITAMIN C**Operating Scenario:** OS222016 DERIVATIVES: CONTINUOUS TUBULAR DRYER (X104A)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.551 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.551 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.



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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U222 DERIVATIVES OF VITAMIN C**Operating Scenario:** OS222017 DERIVATIVES: CONVEYING SYSTEM CYCLONE (X107)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.405 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.405 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection  
Facility Specific Requirements

Emission Unit: U222 DERIVATIVES OF VITAMIN C  
Operating Scenario: OS222024 DERIVATIVES: BIN AA T201

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	PM-10 (Total) <= 0.1 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	TSP <= 0.1 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection  
Facility Specific Requirements

Emission Unit: U222 DERIVATIVES OF VITAMIN C  
Operating Scenario: OS222026 DERIVATIVES: V201B1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U222 DERIVATIVES OF VITAMIN C**Operating Scenario:** OS222027 DERIVATIVES: BIN T206 WITH BIN VENT S2101

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.1 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.1 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U222 DERIVATIVES OF VITAMIN C**Operating Scenario:** OS222032 DERIVATIVES: DUMP STATION X202D

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U222 DERIVATIVES OF VITAMIN C**Operating Scenario:** OS222033 DERIVATIVES: PULVERIZER D205 WITH CYCLONE X207D

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U222 DERIVATIVES OF VITAMIN C**Operating Scenario:** OS222034 DERIVATIVES: FEEDER X201G WITH CYCLONE X201C

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.5 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements

Emission Unit: U222 DERIVATIVES OF VITAMIN C  
Operating Scenario: OS222043 DERIVATIVES: X203

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 2.55 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.



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Facility Specific Requirements

Emission Unit: U222 DERIVATIVES OF VITAMIN C  
Operating Scenario: OS222044 DERIVATIVES: SLURRY KETTLE R203 .

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.55 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements

Emission Unit: U222 DERIVATIVES OF VITAMIN C  
Operating Scenario: OS222045 ASCORBIC ACID: REACTOR R201

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.55 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements

Emission Unit: U222 DERIVATIVES OF VITAMIN C  
Operating Scenario: OS222046 DERIVATIVES: SCRUBBER MOTHER LIQUOR TANK T209

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.55 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U222 DERIVATIVES OF VITAMIN C**Operating Scenario:** OS222047 DERIVATIVES: TUBE DRYER T204A

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.55 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U222 DERIVATIVES OF VITAMIN C**Operating Scenario:** OS222048 DERIVATIVES: DUMP STATIONS AND HOUSE VACUUM SYSTEM

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.95 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.95 lb/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Emission Unit: U228 FIRE PUMP DRIVERS

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
4	Generator fuel limited to # 2 fuel oil or diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <ol style="list-style-type: none"> <li>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</li> <li>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</li> <li>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</li> </ol>	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information:</p> <ol style="list-style-type: none"> <li>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</li> <li>2. For each time the emergency generator is specifically operated for testing or maintenance: <ol style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator; and</li> </ol> </li> <li>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</li> </ol> <p>The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and. [N.J.A.C. 7:27-19.11]</p>	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at <a href="http://airnow.gov/">http://airnow.gov/</a>, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at <a href="http://www.state.nj.us/dep/aqpp/aqforecast">http://www.state.nj.us/dep/aqpp/aqforecast</a>; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source.</p> <p>[N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.
7	Carbon Dioxide <= 67 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information:  For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
9	SO <sub>2</sub> <= 0.456 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	TSP <= 0.03 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	NO <sub>x</sub> (Total) <= 0.16 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	CO <= 0.014 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 0.03 tons/yr. Annual emission limit based on total permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	The owner or operator may operate an emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. The owner or operator may operate an emergency RICE up to 50 hours per year in non-emergency situations as allowed by 40 CFR 63.6640(f)(1)(iii) but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. [40 CFR 63.6640(f)(1)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f)(2)]	None.
15	The owner or operator shall comply with the General Provisions as shown in Table 8 to Subpart ZZZZ of 40 CFR 63 that apply to an existing emergency or black start CI RICE constructed or reconstructed before June 12, 2006 and located at an area source of HAP emissions except for a residential, commercial, or institutional emergency stationary RICE. [40 CFR 63.6665]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall change oil and filter every 500 hours of operation or annually, whichever comes first, as prescribed in Table 2d, item 4a to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6603(a)]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the oil and filter change. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
17	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary, as prescribed in Table 2d, item 4b and 4c to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6603(a)]	Other: The owner or operator shall inspect air cleaner every 1000 hours or annually, whichever comes first and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the maintenance procedures and air cleaner, belt and hoses replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
18	The engine must be in compliance with all applicable emission limitations and operating limitations in Subpart ZZZZ of 40 CFR 63 at all times. [40 CFR 63.6605(a)]	None.	None.	None.
19	At all times the owner or operate must operate and maintain a RICE including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	An owner or operator of an existing stationary emergency or black start RICE must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or the owner or operator must develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]	Other: Monitored according to the manufacturer's emission-related written instructions or the maintenance plan developed by the owner or operator. [40 CFR 63.6625(e)].	Other: The owner or operator must keep records of the maintenance procedures. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.
21	The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]	Other: The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Other: The owner or operator must keep records of the maintenance procedures and replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.
22	For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year as allowed in 40 CFR 63.6640(f)(1)(iii), is prohibited. [40 CFR 63.6640(f)(1)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f)(2)]	None.

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Facility Specific Requirements**

**Emission Unit: U228 FIRE PUMP DRIVERS****Operating Scenario: OS1 BLDG 210, FIRE PUMP DRIVER #28**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.87 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 3.12 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	CO <= 0.11 lb/hr. Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 1.21 lb/hr. Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-10 (Total) <= 0.22 lb/hr. Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2 <= 3.45 lb/hr. Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	TSP <= 0.22 lb/hr. Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U228 FIRE PUMP DRIVERS**Operating Scenario:** OS2 BLDG 228, FIRE PUMP DRIVER #32, OS3 BLDG 228, FIRE PUMP DRIVER #33

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.5 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 2.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	CO <= 0.09 lb/hr. Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 0.099 lb/hr. Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-10 (Total) <= 0.18 lb/hr. Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2 <= 2.83 lb/hr. Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	TSP <= 0.18 lb/hr. Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Emission Unit: U240 BUILDINGS 240, 241 and 242

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % exclusive of visible water vapor, except for 3 minutes in any consecutive 30 minute period. It applies to PT241002, and PT242001. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	Opacity: Monitored by visual determination each month during operation. Monitored by NJ Air Test Method 2. [N.J.A.C. 7:27-6.3(c)] &. [N.J.A.C. 7:27-22.16(o)]	Opacity: Recordkeeping by manual logging of parameter each month during operation in a permanently bound log book or by electronic data storage in readily accessible computer files. [N.J.A.C. 7:27-22.16(o)]	None.
2	The owner or operator shall comply with the applicable standards for the emissions of particulates from this source emission point based on 0.02 grains per SCF of stack gas flow as determined in the Table at N.J.A.C. 7:27-6.2(a). It applies to PT241002 and PT242001. [N.J.A.C. 7:27- 6.2]	Other: Monitoring by calculations once initially from preconstruction permit.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially in a permanently bound logbook or readily accessible computer files or maintain a copy of the preconstruction permit application. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) $\leq$ 3.5 lb/hr batch cycle rate. Maximum allowable emission rate for each incinerator as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas for the following Operating Scenarios: OS240008 through OS240012, OS240015 through OS240020, OS240024 through OS240038, OS240041 through OS240046, OS240050 through OS240053, OS240056 & OS240057. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The permittee shall not use the equipment in a manner that will cause visible emissions, exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall visually observe PT242001 once per calendar day when the control devices (CD240003 & CD242001) are operating during filter media cleaning cycles. [N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation for emission point PT242001 in either a readily accessible logbook or computer memories. The permittee shall record the date, emission point, control device, and name/initials of the person performing the observation along with the results of the visual observation. [N.J.A.C. 7:27-22.16(o)]	None.
5	PM-10 (Total) <= 8.63 tons/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	TSP <= 8.63 tons/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	VOC (Total) <= 19.75 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Particulate Emissions <= 0.44 lb/hr maximum emission rate for OS240003. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	VOC (Total) <= 15 lb/hr maximum combined emission rate for the following operating scenarios: OS240008 thru OS240012, OS240015 thru OS240020 OS240024 thru OS240031, OS240034 thru OS240038, OS240041 thru OS240046, OS240050 thru OS240053, OS240056, & OS240057. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations upon occurrence of event, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter upon occurrence of event in either a readily accessible logbook or computer memories. [N.J.A.C. 7:27-22.16(o)]	None.
10	VOC (Total) <= 0.5 lb/hr maximum emission rate for OS240058. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	VOC (Total) <= 2.5 lb/hr maximum emission rate for OS241001 thru OS241051. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	TSP <= 0.43 lb/hr maximum combined emission rate for the following operating scenarios: OS241003, OS242002 thru OS242003. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 0.43 lb/hr maximum combined emission rate for the following operating scenarios: OS242002 thru OS242003. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	Emissions of all other air contaminants not listed in this subject item shall be below the respective reporting thresholds, per N.J.A.C 7:27-22, Appendix, Table A and N.J.A.C 7.27-17.9(a). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Flowrate of Scrubbing Medium at Scrubber Inlet >= 4 gal/min for CD240008 & CD240014. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by flow rate instrument continuously.[N.J.A.C. 7:27-22.16(o)].	<p>Flowrate of Scrubbing Medium at Scrubber Inlet: Recordkeeping by manual logging of parameter daily during operation, in either a readily accessible logbook or computer memories. The permittee shall record the date, time, flow rate, and name/initials of the person performing the monitoring.</p> <p>In lieu of manual recordkeeping, the permittee may use electronic data storage continuously. In the event that the flow rate measurement drops below the minimum required flow rate, the permittee may comply with this requirement by calculating a 15-minute block average. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	<p>Raw Material/Air Contaminant List: Non-HAP and HAP Particulate (Manganese Compounds), VOC (Total), Ammonia, Carbon Dioxide.</p> <p>Maximum equipment capacities/hourly throughputs are as follows: Building 240: Weigh Bin WE-203 (E240003) &lt;= 7,900 lbs/batch; Inoculum Tanks (E240006, E240007, E240012 thru E240014, E240021 thru E240023) &lt;= 4,000 gallons; Fermentors (E240008 thru E240011, E240015 thru E240020, E240024 thru E240027, E240030, and E240031) &lt;= 40,000 gallons; Mixing Tank R205 (E240028) &lt;= 2,000 gallons; Dump Station T202 (E240029) &lt;= 12,000 lb/batch; Beer Wells (E240032) &lt;= 40,000 gallons; Tank T335 (E240039) &lt;= 10,000 gallons. [N.J.A.C. 7:27-22.16(a)]</p>	The permittee shall maintain production records to ensure that hourly rates are not exceeded. Monitored by other method (provide description) at the approved frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter at the approved frequency in either a readily accessible logbook or computer memories. The permittee shall maintain daily production records. [N.J.A.C. 7:27-22.16(o)]	None.
17	<p>Maximum equipment capacities/hourly throughputs are as follows (cont.):</p> <p>Building 241 Equipment (E241001, E241010, E241012, E241019, E241021, E241022, E241023, E241025) &lt;= 5,400 lbs/hr per piece of equipment; and Building 241 Equipment (E241002, E241003, E241004) and Building 242 Equipment (E242001 thru E242003) &lt;= 1,000 kg/hr. [N.J.A.C. 7:27-22.16(a)]</p>	Other: The permittee shall maintain production records to ensure that hourly rates are not exceeded. [N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter daily in either a readily accessible logbook or computer memories. The permittee shall maintain daily production records. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

**Emission Unit:** U240 BUILDINGS 240, 241 and 242**Operating Scenario:** OS240039 INOC TANK FOR VOC PROCESSES

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1 lb/hr batch cycle rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Hours of Operation <= 3,600 hr/yr based on 45 hours/batch and 80 batches per year. [N.J.A.C. 7:27-22.16(a)]	None.	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the number of batches each month. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) $\leq$ 3 lb/hr. Maximum allowable emission rate for each source as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	<p>Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A:</p> <ol style="list-style-type: none"> <li>1. The chemical name and vapor pressure of each VOC used.</li> <li>2. The percent concentration by volume of VOC in the source gas</li> <li>3. The volumetric gas flow rate</li> <li>4. The source gas range classification</li> <li>5. The maximum allowable emission rate</li> <li>6. Record the maximum actual emission rate.</li> <li>7. Maintain any calculation and test data used to determine the actual emission rate.</li> <li>8. If the source operation is used for more than one process, the dates the source operation is used.</li> </ol> <p>or</p> <p>Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].</p>	None.

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**Emission Unit:** U240 BUILDINGS 240, 241 and 242**Operating Scenario:** OS240067 FERMENTER R274 FOR VOC PROCESSES

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.5 lb/hr batch cycle rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Hours of Operation <= 8,640 hr/yr based on 108 hours/batch and 80 batches per year. [N.J.A.C. 7:27-22.16(a)]	None.	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the number of batches each month. [N.J.A.C. 7:27-22.16(o)]	None.
3	The permittee shall make sure that the emissions from fermenter will be sent to the scrubber (CD240013) before emitting from the stack. OS240067 may not operate simultaneously with OS240044. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Flowrate of Scrubbing Medium at Scrubber Inlet >= 15 gal/min. [N.J.A.C. 7:27-22.16(a)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	<p>Flowrate of Scrubbing Medium at Scrubber Inlet: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation during operation. The permittee shall record the date, time, flow rate, and the name/initials of the person performing the monitoring.</p> <p>In lieu of manual recordkeeping, the permittee may use electronic data storage continuously. In the event that the flow rate measurements drops below the minimum required flow rate, the permittee may comply with this requirement by calculating a 15-minute block average. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Pressure Drop Across the Scrubber $\geq 1$ and Pressure Drop Across the Scrubber $\leq 40$ inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	<p>Pressure Drop Across the Scrubber: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation during operation. The permittee shall record the date, time, flow rate, and the name/initials of the person performing the monitoring.</p> <p>In lieu of manual recordkeeping, the permittee may use electronic data storage continuously. In the event that the flow rate measurements drops below the minimum required flow rate, the permittee may comply with this requirement by calculating a 15-minute block average. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	VOC (Total) $\leq$ 3 lb/hr. Maximum allowable emission rate for each source as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	<p>Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A:</p> <ol style="list-style-type: none"> <li>1. The chemical name and vapor pressure of each VOC used.</li> <li>2. The percent concentration by volume of VOC in the source gas</li> <li>3. The volumetric gas flow rate</li> <li>4. The source gas range classification</li> <li>5. The maximum allowable emission rate</li> <li>6. Record the maximum actual emission rate.</li> <li>7. Maintain any calculation and test data used to determine the actual emission rate.</li> <li>8. If the source operation is used for more than one process, the dates the source operation is used.</li> </ol> <p>or</p> <p>Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].</p>	None.



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Facility Specific Requirements**

Emission Unit: U240 BUILDINGS 240, 241 and 242

Operating Scenario: OS240068 CENTRIFUGE FOR VOC PROCESSES

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Hours of Operation <= 3,000 hr/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate for each source as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	<p>Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A:</p> <ol style="list-style-type: none"> <li>1. The chemical name and vapor pressure of each VOC used.</li> <li>2. The percent concentration by volume of VOC in the source gas</li> <li>3. The volumetric gas flow rate</li> <li>4. The source gas range classification</li> <li>5. The maximum allowable emission rate</li> <li>6. Record the maximum actual emission rate.</li> <li>7. Maintain any calculation and test data used to determine the actual emission rate.</li> <li>8. If the source operation is used for more than one process, the dates the source operation is used.</li> </ol> <p>or</p> <p>Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].</p>	None.

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Emission Unit: U240 BUILDINGS 240, 241 and 242  
Operating Scenario: OS240069 MIX TANK T601, OS240070 MIX TANK T601, OS240071 DUMP STATION T607, OS240072 DUMP STATION T607

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**Emission Unit:** U240 BUILDINGS 240, 241 and 242**Operating Scenario:** OS240073 FERMENTER/STORAGE TANK R261  
MULTI USE

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 2 lb/hr controlled batch cycle emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Hours of Operation <= 8,640 hours based on 108 hours/batch and 80 batches per year. [N.J.A.C. 7:27-22.16(a)]	None.	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the number of batches each month. [N.J.A.C. 7:27-22.16(o)]	None.
3	The permittee shall make sure that the emissions from source will be sent to the scrubber (CD240013) before emitting from the stack. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Flowrate of Scrubbing Medium at Scrubber Inlet >= 15 gal/min. [N.J.A.C. 7:27-22.16(a)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Recordkeeping by manual logging of parameter or storing data in a computer data system daily during operation. The permittee shall record the date, time, flow rate, and the name/initials of the person performing the monitoring.  In lieu of manual recordkeeping, the permittee may use electronic data storage continuously. In the event that the flow rate measurements drops below the minimum required flow rate, the permittee may comply with this requirement by calculating a 15-minute block average. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Pressure Drop Across the Scrubber $\geq 1$ and Pressure Drop Across the Scrubber $\leq 40$ inches w.c.. The pressure drop across the scrubber will be determined within 90 days of the approval of the permit or the initial start up, whichever is earlier. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation during operation. The permittee shall record the date, time, flow rate, and the name/initials of the person performing the monitoring.  In lieu of manual recordkeeping, the permittee may use electronic data storage continuously. In the event that the flow rate measurements drops below the minimum required flow rate, the permittee may comply with this requirement by calculating a 15-minute block average. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	VOC Control Efficiency $\geq$ 85 % by volume. [N.J.A.C. 7:27-16.16(e)]	VOC Control Efficiency: Monitored by in process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	<p>VOC Control Efficiency: Recordkeeping by or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A:</p> <ol style="list-style-type: none"> <li>1. The chemical name and vapor pressure of each VOC used.</li> <li>2. The percent concentration by volume of VOC in the source gas</li> <li>3. The volumetric gas flow rate</li> <li>4. The source gas range classification</li> <li>5. The maximum allowable emission rate</li> <li>6. Record the maximum actual emission rate.</li> <li>7. Maintain any calculation and test data used to determine the actual emission rate.</li> <li>8. If the source operation is used for more than one process, the dates the source operation is used.</li> </ol> <p>or</p> <p>Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].</p>	None.

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Facility Specific Requirements**

**Emission Unit:** U253 Emergency Generator, 1.02 MMBtu/hr, 100 kW, Diesel Fuel

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart IIII. [40 CFR Federal Rules Summary]	None.	None.	None.
2	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	Particulate Emissions <= 0.61 lb/hr from the combustion of fuel based on the rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Maximum allowable sulfur content in fuel oil by fuel type/viscosity and geographical zone. [N.J.A.C. 7:27- 9.2(b)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Sulfur Content in Fuel <= 15 ppmw. Maximum allowable sulfur content in diesel fuel shall be no more than 15 ppm (0.0015% by wt.). [N.J.A.C. 7:27-22.16(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
6	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>The emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <ol style="list-style-type: none"> <li>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</li> <li>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</li> <li>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</li> </ol>	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record in a logbook or computer data system, the following information:</p> <ol style="list-style-type: none"> <li>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</li> <li>2. For each time the emergency generator is specifically operated for testing or maintenance: <ol style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator; and</li> </ol> </li> <li>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</li> </ol> <p>The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at <a href="http://airnow.gov/">http://airnow.gov/</a>, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at <a href="http://www.state.nj.us/dep/aqpp/aqforecast">http://www.state.nj.us/dep/aqpp/aqforecast</a>; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.
9	<p>The owner or operator shall submit an annual statement certified in accordance with N.J.A.C. 7:27-1.39 and signed by the responsible official, as defined at N.J.A.C. 7:27-1.4. The Responsible Official shall certify annually that the emergency generator is operated as defined in this permit. [N.J.A.C. 7:27-22.1]</p>	None.	None.	None.
10	<p>Maximum Gross Heat Input &lt;= 1.02 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]</p>	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information:  For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
12	VOC (Total) <= 0.0464 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
13	NOx (Total) <= 0.0464 tons/yr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
14	CO <= 0.0116 tons/yr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
15	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866 (NSPS Subpart A). [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP (NSPS Subpart A). [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
17	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere (NSPS Subpart A). [40 CFR 60.12]	None.	None.	None.
18	The owner or operator shall notify the Administrator of the proposed replacement of components (NSPS Subpart A). [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
19	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19 (NSPS Subpart A). [40 CFR 60.19]	None.	None.	None.
20	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions over the entire life of the engine. [40 CFR 60.4206].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.
22	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable (NSPS Subpart IIII). [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. [40 CFR 60.4211].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	Emergency generators may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year (NSPS Subpart IIII). [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
24	The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power $\geq 37$ kW (HP $\geq 50$ ) and no greater than 3,000HP ( $\leq 2,237$ kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NO <sub>x</sub> $\leq 4$ g/kW-hr, CO $\leq 5$ g/kW-hr, PM $\leq 0.3$ g/kW-hr, weighted average emissions as defined in 40 CFR 89.404. (NSPS Subpart IIII). [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	The owner or operator of a 2007 model year and later stationary CI internal combustion engine complying with the emission standards specified in 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications (NSPS Subpart IIII). [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.
26	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII, for compression ignition engines or 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (MACT ZZZZ) [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U253 Emergency Generator, 1.02 MMBtu/hr, 100 kW, Diesel Fuel

**Operating Scenario:** OS1 Emergency Generator, 1.02 MMBtu/hr, 100 kW, Diesel Fuel, 99 hr/yr

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.938 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
2	NOx (Total) <= 0.938 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
3	CO <= 0.235 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

**Emission Unit:** U262 OPTIMA: BUILDING 262**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall comply with the applicable standards for the emissions of particulates including opacity as required in N.J.A.C. 7:27-6. Applies to PT262001 and PT262002. [N.J.A.C. 7:27- 6]	None.	None.	None.
2	The permittee shall not use the equipment in a manner that will cause visible emissions, exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall visually observe PT262001 and PT262002 once per calendar day when the control devices (CD262003 and CD262004) are operating during filter media cleaning cycles.  Note: CD262003 may operate without venting to atmosphere and shall be monitored only when venting to PT262001 during filter media cleaning cycle.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation for each emission point (PT262001 and PT262002) in either a readily accessible logbook or computer memories. The permittee shall record the date, emission point, control device, and name/initials of the person performing the observation along with the results of the visual observation. [N.J.A.C. 7:27-22.16(o)]	None.
3	PM-10 (Total) <= 9.73 tons/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	TSP <= 9.73 tons/yr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Emissions of all other air contaminants are below the respective reporting thresholds per N.J.A.C. 7:27-22, Appendix Tables A and B. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Annual process level throughput shall not exceed 2,000 metric tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records each month during operation[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter each month during operation in either a readily accessible logbook or computer memories. The permittee shall record the monthly and year to date total process throughput for Unit 262. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Raw Material/Air Contaminant List: Non-HAP Particulate.  Maximum raw material throughput is as follows:  Unloading Station K123 (E262006) <=1 metric ton/batch;  Unloading Station K125 (E262007) <=1 metric ton/batch;  Unloading Station K130 (E262008) <=1 metric ton/batch; and  Sifter and Packaging System S161 <= 5 metric tons/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



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Facility Specific Requirements**

**Emission Unit:** U262 OPTIMA: BUILDING 262**Operating Scenario:** OS262002 OPTIMA: TOWER D-133

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	PM-10 (Total) <= 1.14 lb/hr. Maximum combined emission rate for PT262001. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	TSP <= 1.14 lb/hr. Maximum combined emission rate for PT262001. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Maximum throughput <= 0.5 metric tons/hr dry basis. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit:** U262 OPTIMA: BUILDING 262**Operating Scenario:** OS262003 OPTIMA: DRYER D-135

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	PM-10 (Total) <= 1.14 lb/hr. Maximum combined emission rate for PT262001. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	TSP <= 1.14 lb/hr. Maximum combined emission rate for PT262001. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Maximum throughput <= 0.5 metric tons/hr dry basis. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit:** U262 OPTIMA: BUILDING 262**Operating Scenario:** OS262004 OPTIMA: DAY BIN T-155

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	PM-10 (Total) <= 1.14 lb/hr. Maximum combined emission rate for PT262001. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	TSP <= 1.14 lb/hr. Maximum combined emission rate for PT262001. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Maximum throughput <= 1 metric ton/hr dry basis. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit:** U262 OPTIMA: BUILDING 262**Operating Scenario:** OS262005 OPTIMA: BLENDER M-160

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	PM-10 (Total) <= 1.14 lb/hr. Maximum combined emission rate for PT262001. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	TSP <= 1.14 lb/hr. Maximum combined emission rate for PT262001. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Maximum throughput <= 5 metric ton/hr. Based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit:** U265 BLDG 264: LIQUID PRODUCT FORMS (LPF) & BLDG 265: CUSTOM PRODUCT UNIT (CPU)**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. Applies to PT264001 & PT265001 thru PT265004. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27-6.2(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	<p>Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes:</p> <p>(1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected</p> <p>The permittee shall visually observe PT265001 monthly when the control device CD265001 is operating. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following:</p> <p>(1) Date and time of inspection;  (2) Emission Point number;  (3) Operational status of equipment;  (4) Observed results and conclusions;  (5) Description of corrective action taken if needed;  (6) Date and time opacity problem was solved, if applicable;  (7) N.J.A.C. 7:27B-2 results if conducted; and  (8) Name of person(s) conducting inspection.</p> <p>Recordkeeping once per month during operation for emission point PT265001. [N.J.A.C. 7:27-22.16(o)]</p>	None.
3	Emissions of all other air contaminants including HAPs are below the respective reporting thresholds in N.J.A.C. 7:27-22 Appendix Tables A & B. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	PM-10 (Total) <= 4.8 tons/yr. Maximum annual emission limit based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	TSP <= 4.8 tons/yr. Maximum annual emission limit based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Raw Material/Air Contaminant List: Non-HAP Particulate Maximum raw material throughput is as follows:  Non-HAP material throughput <= 6.4 metric tons/batch (14,000 lbs/batch) per piece of equipment in Unit 265. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	The annual process throughput shall not exceed 55,628.6 metric tons/yr (61,320 tons/yr) per piece of equipment in U265. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records each month during operation.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter each month during operation in either a readily accessible logbook or computer memories. The permittee shall record monthly and year to date total process throughput for Unit 265. [N.J.A.C. 7:27-22.16(o)]	None.
8	Flowrate >= 1 and Flowrate <= 5 gal/min for Wet Scrubber X404 (CD264001). [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by flow rate instrument continuously.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manually logging of the parameter, once per calendar day during operation, in a readily accessible logbook or computer memories. The permittee shall record the date, time, flow rate, and name/initials of the person performing the monitoring. In the event that the flow rate measurement drops below the minimum required flow rate, the permittee may comply with this requirement by calculating a 15-minute block average.  In lieu of manual recordkeeping, the permittee may use electronic data storage continuously.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

**Emission Unit:** U265 BLDG 264: LIQUID PRODUCT FORMS (LPF) & BLDG 265: CUSTOM PRODUCT UNIT (CPU)**Operating Scenario:** OS26401 LPF: PROCESS TANK T-427 venting to Wet Scrubber X404

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.18 lb/hr Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.18 lb/hr Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.



BOP180001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U265 BLDG 264: LIQUID PRODUCT FORMS (LPF) & BLDG 265: CUSTOM PRODUCT UNIT (CPU)

**Operating Scenario:** OS26501 CPU: Bag Dump Station: F401A venting to DC X570.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.23 lb/hr Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.23 lb/hr Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP180001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U265 BLDG 264: LIQUID PRODUCT FORMS (LPF) & BLDG 265: CUSTOM PRODUCT UNIT (CPU)**Operating Scenario:** OS26502 CPU: Bag Dump Station: F402A venting to DC X570.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.23 lb/hr Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.23 lb/hr Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP180001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U265 BLDG 264: LIQUID PRODUCT FORMS (LPF) & BLDG 265: CUSTOM PRODUCT UNIT (CPU)

**Operating Scenario:** OS26503 CPU: Bag Dump Station: F404A venting to DC X570.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.23 lb/hr Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.23 lb/hr Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP180001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U265 BLDG 264: LIQUID PRODUCT FORMS (LPF) & BLDG 265: CUSTOM PRODUCT UNIT (CPU)**Operating Scenario:** OS265020 CPU: Bag Dump Station: F305 venting to DC X570.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.23 lb/hr Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.23 lb/hr Maximum emission rate based on Preconstruction Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP180001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Emission Unit: U213000 VOC Recovery System

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.65 lb/hr. Maximum allowable emission rate applies to PT214501 exhaust when 6 storage tanks and E 214512 (Column 8A) of Ethanol Recovery Plant is operating . [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially by using the site specific software for which output results are submitted with this application. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
2	Acetone <= 2 lb/hr. Maximum allowable emission rate applies to PT214501 exhaust when operating under when 6 storage tanks and E 214512 (Column 8A) of Ethanol Recovery Plant operating . [N.J.A.C. 7:27-22.16(a)]	Acetone: Monitored by calculations once initially by using the site specific software for which output results are submitted with this application. [N.J.A.C. 7:27-22.16(o)]	Acetone: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
3	The Column 8A will be used for the ethanol denaturing operation. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once per shift during operation, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	None.	None.
4	VOC (Total) <= 0.98 tons/yr. Maximum allowable emission rate applies to PT214501. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations semiannually: once every six months; six month cycle shall begin on January 1 and July 1 of each year by using emission rate (Reference 34) and air flow from existing cumulative air flow meter. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.

BOP180001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Cooling Medium Inlet Temperature <= 16 degrees F for condenser CD214507. [N.J.A.C. 7:27-22.16(a)]	for supply line when operating under OS 214708 and OS 214710. Cooling Medium Inlet Temperature: Monitored by temperature instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Cooling Medium Inlet Temperature: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. In the event that the temperature fluctuates above the minimum required temperature, the permittee may comply with this requirement by calculating a 15-minute block average.  In lieu of continuous recordkeeping, the permittee may manually log the parameter, once day during operation, in a readily accessible logbook or computer memories. The permittee shall record the date, time, flow rate, and name/initials of the person performing the monitoring. In case electronic data system storage is down, records shall be manually log once per day. [N.J.A.C. 7:27-22.16(o)]	None.
6	Cooling Medium Outlet Temperature <= 25 degrees F for condenser CD214507. [N.J.A.C. 7:27-22.16(a)]	Cooling Medium Outlet Temperature: Monitored by temperature instrument continuously when operating under OS 214708 and OS 214710. [N.J.A.C. 7:27-22.16(o)]	Cooling Medium Outlet Temperature: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. In the event that the temperature fluctuates below the maximum required temperature, the permittee may comply with this requirement by calculating a 15-minute block average.  In lieu of continuous recordkeeping, the permittee may manually log the parameter, once day during operation, in a readily accessible logbook or computer memories. The permittee shall record the date, time, flow rate, and name/initials of the person performing the monitoring. In case electronic data system storage is down, records shall be manually log once per day. [N.J.A.C. 7:27-22.16(o)]	None.
7	Maintain and inspect the conservation vent PT124501 as per original manufacturer's specification, for proper operation. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27- 8.16(o)]	None.

BOP180001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U214501 STEP 5: MOBILE TANKER**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Emissions of all other air contaminants not listed in this subject item are below the respective reporting thresholds, per N.J.A.C 7:27-22, Appendix, Table A and N.J.A.C 7.27-17.9(a). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall not use the equipment in a manner that will cause visible emissions, exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

**New Jersey Department of Environmental Protection**  
**Facility Profile (General)**

**Facility Name (AIMS):** DSM NUTRITIONAL PRODUCTS LLC

**Facility ID (AIMS):** 85452

**Street** 205 MACKS IS DR  
**Address:** BELVIDERE, NJ 07823-1113

**Mailing** 205 MACKS IS DR  
**Address:** BELVIDERE, NJ 07823-1113

**County:** Warren  
**Location** White Twp. off Route 46  
**Description:**

<b>State Plane Coordinates:</b>	
<b>X-Coordinate:</b>	335,462
<b>Y-Coordinate:</b>	732,545
<b>Units:</b>	New Jersey State Plane 8
<b>Datum:</b>	NAD83
<b>Source Org.:</b>	DEP-GIS
<b>Source Type:</b>	Other/Unknown

<b>Industry:</b>	
<b>Primary SIC:</b>	2833
<b>Secondary SIC:</b>	2834
<b>NAICS:</b>	325411



**New Jersey Department of Environmental Protection  
Facility Profile (General)**

**Contact Type: Air Permit Information Contact**

**Organization:** DSM NUTRITIONAL PRODUCTS

**Org. Type:** Corporation

**Name:** ANDREW TYNAN

**NJ EIN:** 00562328782

**Title:** SHE MANAGER

**Phone:** (908) 475-7486 x

**Mailing Address:** 205 MACKS ISLAND DR

**Fax:** (908) 475-7406 x

BELVIDERE, NJ 07823

**Other:** ( ) - x

**Type:**

**Email:** andrew.tynan@dsm.com

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**Contact Type: BOP - Operating Permits**

**Organization:** DMS NUTRITIONAL PRODUCTS

**Org. Type:** LLC

**Name:** ANDREW TYNAN

**NJ EIN:** 27408514400

**Title:** SHE MANAGER

**Phone:** (908) 475-7486 x

**Mailing Address:** 205 MACKS ISLAND DR

**Fax:** (908) 475-7406 x

BELVIDERE, NJ 07823

**Other:** ( ) - x

**Type:**

**Email:** ANDREW.TYNAN@DSM.COM

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**Contact Type: Emission Statements**

**Organization:** DSM NUTRITIONAL PRODUCTS

**Org. Type:** LLC

**Name:** ANDREW TYNAN

**NJ EIN:** 00562328782

**Title:** SHE MANAGER

**Phone:** (908) 475-7486 x

**Mailing Address:** 205 MACKS IS DR

**Fax:** (908) 475-7406 x

BELVIDERE, NJ 07823-1113

**Other:** ( ) - x

**Type:**

**Email:** ANDREW.TYNAN@DSM.COM

**New Jersey Department of Environmental Protection  
Facility Profile (General)**

**Contact Type: Environmental Officer**

**Organization:** DSM NUTRITIONAL PRODUCTS

**Org. Type:** LLC

**Name:** ANDREW TYNAN

**NJ EIN:** 27408514400

**Title:** MANAGER SHE

**Phone:** (908) 475-7486 x

**Mailing Address:** 205 MACKS ISLAND DR

**Fax:** (908) 475-7406 x

BELVIDERE, NJ 07823

**Other:** ( ) - x

**Type:**

**Email:** andrew.tynan@dsm.com

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**Contact Type: Fees/Billing Contact**

**Organization:** DSM NUTRITIONAL PRODUCTS

**Org. Type:** LLC

**Name:** ANDREW TYNAN

**NJ EIN:** 00562328782

**Title:** SHE MANAGER

**Phone:** (908) 475-7486 x

**Mailing Address:** 205 MACKS IS DR

**Fax:** (908) 475-7406 x

BELVIDERE, NJ 07823-1113

**Other:** ( ) - x

**Type:**

**Email:** ANDREW.TYNAN@DSM.COM

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**Contact Type: General Contact**

**Organization:** DSM Nutritional Products Inc

**Org. Type:** LLC

**Name:** DIANA CEASER

**NJ EIN:** 27408514400

**Title:** SHE DIRECTOR

**Phone:** (908) 475-7553 x

**Mailing Address:** 205 Macks Island Dr

**Fax:** (908) 475-7406 x

Belvidere, NJ 07823

**Other:** ( ) - x

**Type:**

**Email:** andrew.tynan@dsm.com

New Jersey Department of Environmental Protection  
Facility Profile (General)

**Contact Type: On-Site Manager**

**Organization:** DSM NUTRITIONAL PRODUCTS

**Org. Type:** LLC

**Name:** Floris Fooij

**NJ EIN:**

**Title:** Site Manager

**Phone:** (908) 475-7301 x

**Mailing Address:** 205 MACKS IS DR

**Fax:** ( ) - x

BELVIDERE, NJ 07823-1113

**Other:** ( ) - x

**Type:**

**Email:** floris.fooij@dsm.com

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**Contact Type: Owner (Current Primary)**

**Organization:** DSM NUTRITIONAL PRODUCTS

**Org. Type:** LLC

**Name:** DSM NUTRITIONAL PRODUCTS

**NJ EIN:** 27408514400

**Title:** Owner

**Phone:** (908) 475-5300 x

**Mailing Address:** 205 MACKS ISLAND DR

**Fax:** (908) 475-7406 x

BELVIDERE, NJ 07823

**Other:** ( ) - x

**Type:**

**Email:** andrew.tynan@dsm.com

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**Contact Type: Responsible Official**

**Organization:** DSM NUTRITIONAL PRODUCTS

**Org. Type:** LLC

**Name:** FLORIS FOOIJ

**NJ EIN:** 27408514400

**Title:** DIRECTOR & SITE MANAGER

**Phone:** (908) 475-7301 x

**Mailing Address:** 205 MACKS IS DR

**Fax:** (908) 475-7402 x

BELVIDERE, NJ 07823-1113

**Other:** ( ) - x

**Type:**

**Email:** floris.fooij@dsm.com

**DSM NUTRITIONAL PRODUCTS LLC (85452)**  
**BOP180001**

Date: 05/04/2022

**New Jersey Department of Environmental Protection**  
**Non-Source Fugitive Emissions**

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)								
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG2	LDAR per N.J.A.C. 7-27-16.18	Facility-wide	0.250							0.00000000	
Total			0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

**New Jersey Department of Environmental Protection**  
**Insignificant Source Emissions**

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1	Small Combustion Equipment (<1 MMBtu/hr)	Fuel Combustion Equipment (Other)		0.120	2.330	3.730		0.180	0.180	0.000	0.00000000	0.000
IS2	Small Manufacturing and Materials Handling Equipment (<50 lb/hr throughput)	Manufacturing and Materials Handling Equipment		0.220	0.000	0.000	0.000	0.220	0.220	0.000	0.00000000	0.220
IS3	Small Manufacturing and Materials Handling Equipment [(<1,000 gal, <1.5 psi v.p.) or (>1,000 gal, <0.02 psi v.p., <350 degrees F)]	Manufacturing and Materials Handling Equipment		0.010	0.000	0.000	0.000	0.880	0.880	0.000	0.00000000	0.000
IS4	Solids Storage Vessels (<2,000 cu. ft.)	Storage Vessel		0.000	0.000	0.000	0.000	0.660	0.660	0.000	0.00000000	0.220
IS5	Non-VOC/HAP Storage Vessels (<10,000 gals)	Storage Vessel		0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.330
IS6	Small VOC Storage Vessels (<2,000 gals)	Storage Vessel		0.440	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS7	Storage Vessels [>10,000 gal, <0.02 psi v.p., <350 degrees F) or (>2,000 gal, <0.02 psi v.p., <350 degrees F)]	Storage Vessel		0.220	0.000	0.000	0.000	0.540	0.540	0.000	0.00000000	0.000

**New Jersey Department of Environmental Protection**  
**Insignificant Source Emissions**

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS8	Surface cleaners using <5% VOC and HAP by weight	Other Equipment		0.220	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS9	Unheated surface cleaners (with a top opening of < 6 ft2 or a capacity < 100 gallons)	Other Equipment		0.220	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS15	Tanks <1000 gal <1.5 psia with 99% particulate control	Manufacturing and Materials Handling Equipment		0.220	0.000	0.000	0.000	0.220	0.000	0.000	0.00000000	0.000
Total				1.680	2.330	3.730	0.000	2.700	2.480	0.000	0.00000000	0.800

BOP180001

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E20003	EMERG. GEN	EMERGENCY GENERATOR: BLDG 200	Emergency Generator	Log# 1-97-3351		No		
E200002	VACUUM SYS 2	DISTRIBUTION CENTER: DUST FROM VITAMIN PACKAGING ROOM 140	Manufacturing and Materials Handling Equipment	Log# 01980968		No		
E202004	BOILER NO 2	BOILER NO 2, BLDG 202	Boiler	Ct 089098		No		
E202006	BOILER NO 4	BOILER NO 4, BLDG 202	Boiler	Ct 089099		No		
E202007	Sullair Unit	Emergency Compressor	Emergency Generator	General Permit		No		
E202008	Em. Gen	Emergency Generator	Emergency Generator	GP04		No		
E202009	Turbine	Turbine	Combustion Turbine	BOP110002	1/1/2012	No		
E202010	Duct Burner	Duct Burner	Fuel Combustion Equipment (Other)	BOP110002	1/1/2012	No		
E202012	TEMP BOILER	TEMPORARY BOILER, BLDG 202	Boiler		5/3/2019			
E209001	D-701	SPRAY DRY/CHILL: SPRAY DRYER D-701, PRODUCT COLLECTION CYCLONE S-705 & S706, PROPANE BURNER	Manufacturing and Materials Handling Equipment	Ct 001232		No		
E209002	R-601	SPRAY DRY/CHILL: 1,500 GAL. MIX VESSEL R-601	Manufacturing and Materials Handling Equipment		1/1/2013	No		
E209003	R-602	SPRAY DRY/CHILL: 1,500 GAL. MIX VESSEL R-602	Manufacturing and Materials Handling Equipment		1/1/2013	No		

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E209004	M-401	PREMIX: SMALL NAUTA M-401	Manufacturing and Materials Handling Equipment	Ct102334		No		
E209005	M-506	PREMIX: LARGE NAUTA M-506	Manufacturing and Materials Handling Equipment	Ct102334		No		
E209006	PACKAGING1	PREMIX: PACKAGING 1	Manufacturing and Materials Handling Equipment	Ct102334		No		
E209007	PACKAGING2	PREMIX: PACKAGING 2	Manufacturing and Materials Handling Equipment	Ct102334		No		
E209008	T-107	BLENDS: DUMP STATION T-107	Manufacturing and Materials Handling Equipment	Ct 095319		No		
E209009	X0200A	PACKAGING SYSTEM	Manufacturing and Materials Handling Equipment		12/1/2010	No		
E209010	209T0101	BLENDS: BULK STORAGE SILO 209T0101	Manufacturing and Materials Handling Equipment	GEN990001		No		
E209011	209T0103	BLENDS: SURGE HOPPER 209T0103	Manufacturing and Materials Handling Equipment	GEN990002		No		
E209012	T-120	BLENDS: HOPPER T120	Manufacturing and Materials Handling Equipment			No		



**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E209013	X83	TRITS/UNIFORMITY BLENDING: BLENDER X83	Manufacturing and Materials Handling Equipment			No		
E209014	HOFFMAN HV	HOFFMAN CENTRAL VACUUM SYSTEM	Manufacturing and Materials Handling Equipment	1-98-0023		No		
E209015	X602A	BAG DUMP STATION	Manufacturing and Materials Handling Equipment		12/10/2008	No		
E209016	TRANSFER STA	TRANSFER STATION	Manufacturing and Materials Handling Equipment		12/10/2008	No		
E209017	X87	PACKAGING STATION	Manufacturing and Materials Handling Equipment					
E210001	FIRE PUMP 28	FIRE PUMP DRIVER #28, BLDG 210	Emergency Generator			Yes		
E212001	PRE-CLAR	WASTEWATER TREATMENT PLANT: PRE-CLARIFIER TANK	Other Equipment			No		
E212002	RETENT POND	WASTEWATER TREATMENT PLANT: RETENTION POND (EMERGENCY USE ONLY)	Other Equipment			No		

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E212003	AER TNK 3-6	WASTEWATER TREATMENT PLANT: FIRST STAGE AERATION TANKS 3 THRU 6	Other Equipment			No		
E212004	FNL CLAR 1	WASTEWATER TREATMENT PLANT: FIRST STAGE FINAL CLARIFIER 1	Other Equipment			No		
E212005	FNL CLAR 2	WASTEWATER TREATMENT PLANT: FIRST STAGE FINAL CLARIFIER 2	Other Equipment			No		
E212006	DIGESTER T1	WASTEWATER TREATMENT PLANT: AEROBIC DIGESTER TANK 1	Other Equipment			No		
E212007	DIGESTER T2	WASTEWATER TREATMENT PLANT: AEROBIC DIGESTER TANK 2	Other Equipment			No		
E212008	DEWATR PRES1	WASTEWATER TREATMENT PLANT: DEWATERING PRESS 1	Other Equipment			No		
E212009	DEWATR PRES2	WASTEWATER TREATMENT PLANT DEWATERING PRESS	Other Equipment			No		

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E212010	AER TNK 7	WASTEWATER TREATMENT PLANT: SECOND STAGE AERATION TANK 7	Other Equipment			No		
E212011	AER TNK 8	WASTEWATER TREATMENT PLANT: SECOND STAGE AERATION TANK 8	Other Equipment			No		
E212012	STG2 FNL CLA	WASTEWATER TREATMENT PLANT: SECOND STAGE FINAL CLARIFIER	Other Equipment			No		
E212013	POLISH POND1	WASTEWATER TREATMENT PLANT: POLISHING POND 1	Other Equipment			No		
E212014	POLISH POND2	WASTEWATER TREATMENT PLANT: POLISHING POND 2	Other Equipment			No		
E212015	CONTACT TNK	WASTEWATER TREATMENT PLANT: SECOND STAGE CONTACT TANK	Other Equipment			No		
E212016	POLISH FILTR	WASTEWATER TREATMENT PLANT: POLISHING FILTERS	Other Equipment			No		
E214512	C0508	COLUMN 8A	Other Equipment			No		
E214513	T0520	T0520	Storage Vessel			No		

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E214519	T5826	T5826 TANK	Storage Vessel			No		
E214522	T5845	T5845 TANK	Storage Vessel			No		
E214523	T5851	T5851 TANK	Storage Vessel			No		
E214526	T0512	T0512	Storage Vessel			No		
E214589	TANKER	MOBILE TANKER	Manufacturing and Materials Handling Equipment			No		
E218004	T-9886	TANK FARM: 25,000 GAL. STORAGE TANK T-9886	Storage Vessel	Ct 114447		No		
E218005	T-9887	TANK FARM: 25,000 GAL. STORAGE TANK T-9887	Storage Vessel	Ct 114448		No		
E218011	T-9917	TANK FARM: 25,000 GAL. STORAGE TANK T-9917	Storage Vessel	Ct 114451	6/1/2014	No		
E218012	T-953	TANK FARM: 25,000 GALLON STORAGE TANK T-953	Storage Vessel	Ct 114454		No		
E222001	X101A	DERIVATIVES: PREMIX-BLENDER (X101A)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222002	X105A	DERIVATIVES: FINAL PRODUCT BLENDER (X105A)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222003	X106A	DERIVATIVES:FINAL PRODUCT BLENDER (X106A)	Manufacturing and Materials Handling Equipment	PCP000007		No		

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E222004	X103A	DERIVATIVES:GRANULATIC PREDRYER (X103A)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222005	T105	DERIVATIVES: SURGE HOPPER (T105)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222006	D101	DERIVATIVES: LOSS IN WEIGH FEEDER (D101)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222007	DUMP STATION	DERIVATIVES: 2ND FLOOR DUMP STATION	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222008	T106	DERIVATIVES: TOTE FILLER (T106)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222009	V105	DERIVATIVES: DRUM FILLER (V105)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222010	X104E	DERIVATIVES: AIRLOCK X104E FOR X104A (NOODLE CONVEYING SYSTEM)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222011	X107D	DERIVATIVES: AIRLOCK X107D (SIFTER)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222012	X108G	DERIVATIVES: CYCLONE (X108G)	Manufacturing and Materials Handling Equipment	PCP000007		No		

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E222013	M101	DERIVATIVES: CONE BLENDER (M101)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222014	X108, X108C	DERIVATIVES: DUMP STATION (X108), BAG PUMP RECEIVER (X108C)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222015	X104A	DERIVATIVES: CONTINUOUS TUBULAR DRYER (X104A)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222016	X107F	DERIVATIVES: CONVEYING SYSTEM CYCLONE (X107F)	Manufacturing and Materials Handling Equipment	PCP000007		No		
E222017	T112	DERIVATIVES: DUMP STATION T112	Manufacturing and Materials Handling Equipment	Log# 1980967		No		
E222018	T113	DERIVATIVES: DUMP STATION T113	Manufacturing and Materials Handling Equipment	Log# 1980967		No		
E222019	T114	DERIVATIVES: DUMP STATION T114	Manufacturing and Materials Handling Equipment	Log# 1980967		No		
E222020	BIN AA T201	DERIVATIVES: BIN AA T201	Manufacturing and Materials Handling Equipment	Ct 037173		No		
E222021	BIN T207	DERIVATIVES: BIN T207	Manufacturing and Materials Handling Equipment	Ct 037173		No		

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E222022	V201B	DERIVATIVES: DENSE PHASE PUMP V201B	Manufacturing and Materials Handling Equipment	Ct 037173		No		
E222023	BIN T206	DERIVATIVES: BIN T206 WITH BIN VENT S210	Manufacturing and Materials Handling Equipment	Ct 037173		No		
E222024	BLENDER X205	DERIVATIVES: BLENDER X205	Manufacturing and Materials Handling Equipment	Ct 037173		No		
E222025	BLENDER X206	DERIVATIVES: BLENDER X206	Manufacturing and Materials Handling Equipment	Ct 037173		No		
E222026	DRUMFILLV2	DERIVATIVES: DRUMFILLER V203	Manufacturing and Materials Handling Equipment	Ct 037173		No		
E222027	DRUMFILLV2	DERIVATIVES: DRUMFILLER V206	Manufacturing and Materials Handling Equipment	Ct 037173		No		
E222029	X202D	DERIVATIVES: DUMP STATION X202D	Manufacturing and Materials Handling Equipment	PCP960060		No		
E222030	D205	DERIVATIVES: PULVERIZER D205 WITH CYCLONE X207D	Manufacturing and Materials Handling Equipment	PCP960061		No		
E222031	X201G	DERIVATIVES: FEEDER X201G WITH CYCLONE X201C	Manufacturing and Materials Handling Equipment	PCP960063		No		

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E222032	T301	DERIVATIVES: HOLD BIN AA T301	Manufacturing and Materials Handling Equipment	PCP030004		No		
E222033	T303	DERIVATIVES:SURGE BIN T303	Manufacturing and Materials Handling Equipment	PCP030004		No		
E222034	X303A	DERIVATIVES: BLENDER X303A	Manufacturing and Materials Handling Equipment	PCP030004		No		
E222035	V304	DERIVATIVES: PACKAGING V304	Manufacturing and Materials Handling Equipment	PCP030004		No		
E222036	X203	DERIVATIVES: BELT-FILTER PRESS X203	Manufacturing and Materials Handling Equipment	PCP960064		No		
E222037	R203	DERIVATIVES: SLURRY KETTLE R203	Manufacturing and Materials Handling Equipment	PCP960064		No		
E222038	R201	DERIVATIVES: REACTOR R201	Manufacturing and Materials Handling Equipment	PCP960064	2/1/2019	No		
E222039	T209	DERIVATIVES: SCRUBBER MOTHER LIQUOR TANK T209	Manufacturing and Materials Handling Equipment	PCP960064		No		
E222040	X204A	DERIVATIVES: TUBE DRYER X204A	Manufacturing and Materials Handling Equipment	PCP960064	4/19/2022	No		



**New Jersey Department of Environmental Protection  
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E222042	X301A	DERIVATIVES: GLATT FLUID BED DRYER X301A	Manufacturing and Materials Handling Equipment	PCP030004		No		
E222043	DUMP STAT	DERIVATIVES: DUMP STATION & HOUSE VACUUM SYSTEM	Manufacturing and Materials Handling Equipment	PCP010009		No		
E222044	MIX TANK	Mix Tank	Manufacturing and Materials Handling Equipment	PCP030004		Yes		
E222045	F0301	DERIVATIVES: KTRON FEEDER F0301	Manufacturing and Materials Handling Equipment	PCP030004		No		
E222046	H0302	DERIVATIVES: DUMP STATION H0302	Manufacturing and Materials Handling Equipment	PCP030004		No		
E228001	FIRE PUMP 32	FIRE PUMP DRIVER #32, BLDG 228	Emergency Generator			Yes		
E228002	FIRE PUMP 33	FIRE PUMP DRIVER #33, BLDG 228	Emergency Generator			Yes		
E240006	R281	BLDG 240: INOCULUM TANK R281	Manufacturing and Materials Handling Equipment			No		
E240007	R284	BLDG 240: INOCULUM TANK R284	Manufacturing and Materials Handling Equipment			No		

**New Jersey Department of Environmental Protection  
Equipment Inventory**

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E240008	R279	BLDG 240: FERMENTOR R279	Manufacturing and Materials Handling Equipment			No		
E240009	R280	BLDG 240: FERMENTOR R280	Manufacturing and Materials Handling Equipment			No		
E240010	R282	BLDG 240: FERMENTOR R282	Manufacturing and Materials Handling Equipment			No		
E240011	R283	BLDG 240: FERMENTOR R283	Manufacturing and Materials Handling Equipment			No		
E240012	R270	BLDG 240: INOCULUM TANK R270	Manufacturing and Materials Handling Equipment			No		
E240013	R275	BLDG 240: INOCULUM TANK R275	Manufacturing and Materials Handling Equipment			No		
E240014	R278	BLDG 240: INOCULUM TANK R278	Manufacturing and Materials Handling Equipment			No		
E240015	R260	BLDG 240: FERMENTOR / STORAGE TANK R260	Manufacturing and Materials Handling Equipment			No		
E240016	R261	BLDG 240: FERMENTER/ STORAGE TANK	Manufacturing and Materials Handling Equipment			No		

**New Jersey Department of Environmental Protection  
Equipment Inventory**

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E240017	R273	BLDG 240: FERMENTOR / STORAGE TANK R273	Manufacturing and Materials Handling Equipment			No		
E240018	R274	BLDG 240: FERMENTOR R274	Manufacturing and Materials Handling Equipment			No		
E240019	R276	BLDG 240: FERMENTOR R276	Manufacturing and Materials Handling Equipment			No		
E240020	R277	BLDG 240: FERMENTOR R277	Manufacturing and Materials Handling Equipment			No		
E240022	R218B	BLDG 240: INOCULUM TANK R218B	Manufacturing and Materials Handling Equipment			No		
E240023	R218C	BLDG 240: INOCULUM TANK R218C	Manufacturing and Materials Handling Equipment			No		
E240024	R220B	BLDG 240: FERMENTOR R220B	Manufacturing and Materials Handling Equipment			No		
E240025	R220C	BLDG 240: FERMENTOR R220C	Manufacturing and Materials Handling Equipment			No		
E240026	R220E	BLDG 240: FERMENTOR R220E	Manufacturing and Materials Handling Equipment			No		

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Equipment Inventory**

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E240027	R220F	BLDG 240: FERMENTOR R220F	Manufacturing and Materials Handling Equipment			No		
E240028	R205	BLDG 240: MEDIA MIXING TANK R205	Manufacturing and Materials Handling Equipment			No		
E240029	T202	BLDG 240: DUMP STATION T202	Manufacturing and Materials Handling Equipment			No		
E240030	R220A	BLDG 240: FERMENTOR R220A	Manufacturing and Materials Handling Equipment			No		
E240031	R220D	BLDG 240: FERMENTOR R220D	Manufacturing and Materials Handling Equipment			No		
E240032	R300A	BLDG 240: BEER WELL R300A	Manufacturing and Materials Handling Equipment			No		
E240039	T335	BLDG 240: STORAGE TANK T335	Manufacturing and Materials Handling Equipment			No		
E240040	CENTRIFUGE	BLDG 240: CENTRIFUGE	Manufacturing and Materials Handling Equipment			No		
E240041	T601	BLDG 240: MEDIA MIX TANK T601	Manufacturing and Materials Handling Equipment			No		

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Equipment Inventory**

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E240042	T607	BLDG 240: DUMP STATION T607	Manufacturing and Materials Handling Equipment			No		
E241002	Conveyor	SCREW CONVEYOR	Manufacturing and Materials Handling Equipment	NEW		No		
E241003	Dryer	BLDG 241: SUBFLUIDIZED BED DRYER	Manufacturing and Materials Handling Equipment	NEW		No		
E241004	PackLines	PACKAGING LINES	Manufacturing and Materials Handling Equipment	NEW		No		
E242001	SCREW CONV	BLDG 242: SCREW CONVEYOR	Manufacturing and Materials Handling Equipment			No		
E242002	D0504	BLDG 242: FLUIDIZED BED DRYER D0504	Manufacturing and Materials Handling Equipment			No		
E242003	SURGE HOPPER	BLDG 242: SURGE HOPPER AND PACKAGING LINE	Manufacturing and Materials Handling Equipment			No		
E253001	Emer Genarat	Bldg 253: Emergency Generator, 1.02 MMBtu/hr, 100 kW	Emergency Generator			No		
E262001	T130	OPTIMA: HOPPER T-130	Manufacturing and Materials Handling Equipment			No		

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Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E262002	D133	OPTIMA: TOWER D133	Manufacturing and Materials Handling Equipment			No		
E262003	D135	OPTIMA: DRYER D-135	Manufacturing and Materials Handling Equipment			No		
E262004	T155	OPTIMA: DAY BIN T-155	Manufacturing and Materials Handling Equipment			No		
E262005	M160	OPTIMA: BLENDER M-160	Manufacturing and Materials Handling Equipment			No		
E262006	ROOM	BULK AND BAG UNLOADING X0142 AND T0142	Manufacturing and Materials Handling Equipment			No		
E262007	K125	OPTIMA: BAG UNLOADING STATION K125	Manufacturing and Materials Handling Equipment			No		
E262008	X0200	HASSIA AND LOADING STATION	Manufacturing and Materials Handling Equipment			No		
E262009	S161 M161	SIFTER AND PACKAGING SYSTEM	Manufacturing and Materials Handling Equipment			No		
E262013	K141	TOTE AND BAG UNLOADING	Manufacturing and Materials Handling Equipment		6/1/2009			

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E262014	T0130	BULK RECEIVER	Manufacturing and Materials Handling Equipment		12/15/2010	No		
E264001	T-427	LPF: PROCESS TANK:T-427	Manufacturing and Materials Handling Equipment	Ct. 123856		No		
E264002	T-439	LPF: PROCESS TANK: T-439	Manufacturing and Materials Handling Equipment	Ct. 123856		No		
E265001	F401A	CPU: Bag Dump Station: F401A (on previous permit designated F303)	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		
E265002	F402A	CPU: Bag Dump Station: F402A (on previous permit designated F305)	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		
E265003	F404A	CPU: Bag Dump Station: F404A	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		
E265004	W101	CPU: Ingredient Weighing Station 1: W101	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		
E265005	W102	CPU: Ingredient Weighing Station 2: W102	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		
E265006	M204	CPU: Lab Blender: M204	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		

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E265007	F203	CPU: Lab Grinder Chute Dumper: F203	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		
E265008	G203	CPU: Lab Grinder Feed Chute Discharge: G203	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		
E265009	G204	CPU: Lab Grinder Feed Chute Discharge: G204	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		
E265010	X513	CPU: Bag/Box/Drum Filler: X513	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		
E265011	X504	CPU: Pouch Line Form/Fill/Seal: X504	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		
E265012	Blend & Fill	CPU: Blender & Filling line	Manufacturing and Materials Handling Equipment			No		
E265013	F402B	CPU: #2 IBC Filler: F402B	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		
E265014	F404B	CPU: #4 IBC Filler: F404B	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		
E265015	F401B	CPU: #1 IBC Filler: F401B	Manufacturing and Materials Handling Equipment	Log No. 01-97-3333	8/1/1997	No		



BOP180001

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E265016	M402	CPU: Blender #2: M402	Manufacturing and Materials Handling Equipment	Log No. 01-97-3336		No		
E265017	M401	CPU: Blender #4 M404	Manufacturing and Materials Handling Equipment	Log No. 01-97-3337		No		
E265018	M404	CPU: Blender #1 M401	Manufacturing and Materials Handling Equipment	Log No. 01-97-3335		No		
E265019	M405	CPU: Gemco Blender M405	Manufacturing and Materials Handling Equipment	PCP0100014	9/27/2001	No		
E265020	F305	CPU: Bag Dump Station: F305	Manufacturing and Materials Handling Equipment	PCP0100014		No		
E265021	M0406	CPU: Post Lift Blender	Manufacturing and Materials Handling Equipment	NEW SOURCE		No		

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E200002 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	VACUUM SYSTEM 2
Manufacturer:	TOLAN
Model:	8648-1
Type of Manufacturing and Materials Handling Equipment:	DUST FROM VITAMIN PACKAGING OPER
Capacity:	1.00E+03
Units:	other units
Description (if other):	ACFM
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	VACUUM SYSTEM 2 (RM 140): DUST FROM VITAMIN PACKAGING OPERATION VACUUMED TO CARTRIDGE

Make:	Vitamin C Emergency Generator
Manufacturer:	Onan
Model:	1000 DFJD
Maximum Rated Gross Heat Input (MMBtu/hr):	9.954
Will the equipment be used in excess of 500 hours per year?	No
Have you attached a diagram showing the location and/or configuration of this equipment?	Yes
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	No
Comments:	

## 85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E202004 (Boiler)

Print Date: 4/26/2022

Make:	BOILER #2
Manufacturer:	COMBUSTION ENGINEERING
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	231.00
Boiler Type:	Water Tube
Utility Type:	Utility
Output Type:	Steam Only
Steam Output (lb/hr):	150,000.00
Fuel Firing Method:	Wall-fired or cross-fired
Description (if other):	
Draft Type:	Forced
Heat Exchange Type:	

Is the boiler using? (check all that apply):

Low NOx Burner:	<input type="checkbox"/> Type:	
Staged Air Combustion:	<input type="checkbox"/>	
Flue Gas Recirculation (FGR):	<input type="checkbox"/> Amount (%):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

Comments:	FIRES NG AT A REDUCED RATE OF 102 MM Btu/hr AND NO 2 FUEL OIL AT A RATE OF 230.8 MM Btu/hr.
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85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E202006 (Boiler)  
Print Date: 4/26/2022

Make: BOILER #4  
Manufacturer: BABCOCK AND WILCOX  
Model:  
Maximum Rated Gross Heat Input (MMBtu/hr - HHV): 204.00  
Boiler Type: Water Tube  
Utility Type: Utility  
Output Type: Steam Only  
Steam Output (lb/hr): 120,000.00  
Fuel Firing Method: Wall-fired or cross-fired  
Description (if other):  
Draft Type: Forced  
Heat Exchange Type:

Is the boiler using? (check all that apply):

Low NOx Burner: ☐ Type:   
Staged Air Combustion: ☐  
Flue Gas Recirculation (FGR): ☐ Amount (%):

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments: FIRES NG AT A REDUCED RATE OF 102 MM Btu/hr AND NO 2 FUEL OIL AT A RATE OF 204.2 MM Btu/hr.

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E202007 (Emergency Generator)  
Print Date: 4/26/2022

Make:		
Manufacturer:	GM diesel engine	
Model:	6V-71N 228 HP	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	2.00	
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	per BOP110002 application, U202 OS13. Diesel fuel. HP = 228 HP per manufacturer data. Installation 1979	

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E202008 (Emergency Generator)  
Print Date: 4/26/2022

Make:	Generac		
Manufacturer:	Generac (04/30/2016 Manufacture Date)		
Model:	SG150		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.80		
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	150 kW, 230 HP		

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E202009 (Combustion Turbine)  
Print Date: 4/26/2022

Make:	TAURUS 70		
Manufacturer:	SOLAR		
Model:	10801SA		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	99.50		
Type of Turbine:	Industrial		
Type of Cycle:	Cogeneration	Description:	
Industrial Application:	Electrical Generator	Description:	
Power Output:	7.67	Units:	Megawatts
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input checked="" type="checkbox"/>		
Steam Injection:	<input type="checkbox"/>	Steam to Fuel Ratio:	
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	
Other:	<input checked="" type="checkbox"/>	Description:	SCR
Is the turbine Equipped with a Duct Burner?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Comments:	UNIT IS EQUIPPED WITH A SIEMENS STEAM TURBINE RATED AT 2.732 MW		



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E202010 (Fuel Combustion Equipment (Other))**  
**Print Date: 4/26/2022**

Make:	
Manufacturer:	RENTECH
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	96.20
Type of Heat Exchange:	Direct
Equipment Type Description:	Cogeneration Unit Supplemental Duct Burner that combusts Natural Gas

Have you attached a diagram showing the location and/or the configuration of this equipment?

☐ Yes  
☒ No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

☐ Yes  
☒ No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E202012 (Boiler)  
Print Date: 4/26/2022

Make: Cleaver Brooks  
Manufacturer:  
Model: RT-NOS-2A-67  
Maximum Rated Gross Heat Input (MMBtu/hr - HHV): 94.70  
Boiler Type: Water Tube  
Utility Type: Non-Utility  
Output Type: Steam Only  
Steam Output (lb/hr): 75,000.00  
Fuel Firing Method: Conical burners  
Description (if other):  
Draft Type:  
Heat Exchange Type: Indirect

Is the boiler using? (check all that apply):

Low NOx Burner: ☐ Type:   
Staged Air Combustion: ☐  
Flue Gas Recirculation (FGR): ☐ Amount (%):

Have you attached a diagram showing the location and/or the configuration of this equipment?

☐

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

☐ Yes

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E209001 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	SPRAY DRYER D-701
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.40E+04
Units:	other units ▼
Description (if other):	LB/BATCH

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E209002 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	MIX VESSEL R-601
Manufacturer:	TOLAN
Model:	8648-1
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.50E+03
Units:	gallons ▼
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E209003 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	MIX VESSEL R-602
Manufacturer:	TOLAN
Model:	8648-2
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.50E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E209009 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	GEA Processing
Manufacturer:	AVAPAC
Model:	450
Type of Manufacturing and Materials Handling Equipment:	PACKAGING SYSTEM
Capacity:	5.00E+03
Units:	other units ▼
Description (if other):	KG/HR

Have you attached a diagram showing the location and/or the configuration of this equipment?

No ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E209012 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	HOPPER T120
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.70E+02
Units:	ft^3
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Equipemt is equipped with a filter sock

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E209015 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="BAG DUMP STATION"/>
Capacity:	<input type="text" value="7.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="LB/HR"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E209016 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="MATERIAL TRANSFER STATION"/>
Capacity:	<input type="text" value="7.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="LB/HR"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	PACKAGING STATION x87
Capacity:	7.00E+03
Units:	other units
Description (if other):	LB/HR
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

Make:	FIRE PUMP DRIVER #28
Manufacturer:	DETROIT
Model:	
Equipment Type Description:	FIRE PUMP DRIVER
Maximum Rated Gross Heat Input (MMBtu/hr):	3.124
Type of Heat Exchange:	
Have you attached a diagram showing the location and/or configuration of this equipment?	YES
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	NO
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	PRE-CLARIFIER TANK
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	75600
Units:	GAL
Have you attached a diagram showing the location and/or configuration of this equipment?	YES
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	NO
Comments:	

Make:	RETENTION POND (EMERGENCY USE ONLY)
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	1000000
Units:	GAL PER POND
Have you attached a diagram showing the location and/or configuration of this equipment?	Yes
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	NO
Comments:	Source consists of 2 ponds

Make: FIRST STAGE AERATION TANKS 3

Manufacturer:

Model:

Equipment Type:

Capacity: 720000

Units: GAL PER TANK

Have you attached a diagram showing the location and/or configuration of this equipment? YES

Have you attached any manufacturer's data or specifications which may aid in the review of this application? NO

Comments: Source consists of 4 tanks

Make: FIRST STAGE FINAL CLARIFIER 1

Manufacturer:

Model:

Equipment Type:

Capacity: 763000

Units: GAL

Have you attached a diagram showing the location and/or configuration of this equipment? YES

Have you attached any manufacturer's data or specifications which may aid in the review of this application? NO

Comments:

Make: FIRST STAGE FINAL CLARIFIER 2

Manufacturer:

Model:

Equipment Type:

Capacity: 763000

Units: GAL

Have you attached a diagram showing the location and/or configuration of this equipment? YES

Have you attached any manufacturer's data or specifications which may aid in the review of this application? NO

Comments:



Make:	AEROBIC DIGESTER TANK 1
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	720000
Units:	GAL
Have you attached a diagram showing the location and/or configuration of this equipment?	YES
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	NO
Comments:	

Make: AEROBIC DIGESTER TANK 2

Manufacturer:

Model:

Equipment Type:

Capacity: 720000

Units: GAL

Have you attached a diagram showing the location and/or configuration of this equipment? YES

Have you attached any manufacturer's data or specifications which may aid in the review of this application? NO

Comments:

Make:	DEWATERING PRESS 1
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	70
Units:	GPM
Have you attached a diagram showing the location and/or configuration of this equipment?	YES
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	NO
Comments:	

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E212009 (Other Equipment)  
Print Date: 4/26/2022

Make:	DEWATERING PRESS 2
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	70.00
Units:	gal/min
Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

☒ Yes  
☐ No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

☐ Yes  
☒ No

Comments:

Make:	DEWATERING PRESS 2
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	70
Units:	GPM
Have you attached a diagram showing the location and/or configuration of this equipment?	YES
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	NO
Comments:	

Make:	SECOND STAGE AERATION TANK 7
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	720000
Units:	GAL
Have you attached a diagram showing the location and/or configuration of this equipment?	YES
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	NO
Comments:	

Make: SECOND STAGE AERATION TANKS 8

Manufacturer:

Model:

Equipment Type:

Capacity: 720000

Units: GAL

Have you attached a diagram showing the location and/or configuration of this equipment? YES

Have you attached any manufacturer's data or specifications which may aid in the review of this application? NO

Comments:

Make:	SECOND STAGE FINAL CLARIFIER
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	763000
Units:	GAL
Have you attached a diagram showing the location and/or configuration of this equipment?	YES
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	NO
Comments:	



Make: POLISHING POND 1

Manufacturer:

Model:

Equipment Type:

Capacity: 1053000

Units: GAL

Have you attached a diagram showing the location and/or configuration of this equipment? YES

Have you attached any manufacturer's data or specifications which may aid in the review of this application? NO

Comments:

Make:	<div>POLISHING POND 2</div>
Manufacturer:	<div></div>
Model:	<div></div>
Equipment Type:	<div></div>
Capacity:	<div>838000</div>
Units:	<div>GAL</div>
Have you attached a diagram showing the location and/or configuration of this equipment?	<div>YES</div>
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	<div>NO</div>
Comments:	<div></div>

Make: SECOND STAGE CONTACT TANK

Manufacturer:

Model:

Equipment Type:

Capacity: 61740

Units: GAL

Have you attached a diagram showing the location and/or configuration of this equipment? YES

Have you attached any manufacturer's data or specifications which may aid in the review of this application? NO

Comments:

Make: POLISHING FILTERS

Manufacturer:

Model:

Equipment Type:

Capacity: 25600

Units: GAL PER TANK

Have you attached a diagram showing the location and/or configuration of this equipment? YES

Have you attached any manufacturer's data or specifications which may aid in the review of this application? NO

Comments: Source consists of 2 tanks

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E214512 (Other Equipment)  
Print Date: 4/26/2022

Make:	ALCOHOL DRYING COLUMN #8AC0508
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	
Units:	other units
Description:	67 FT HEIGHT X 4 FT DIAM

Have you attached a diagram showing the location and/or the configuration of this equipment?

☐ Yes  
☒ No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

☐ Yes  
☒ No

Comments:

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E214513 (Storage Vessel)  
Print Date: 4/26/2022

What type of contents is this storage vessel equipped to contain by design?

Liquids Only

Storage Vessel Type:

Design Capacity:

245

Units:

gallons

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof  
Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

Does the storage vessel have  
a roof or an open top?

Roof Type:

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E214513 (Storage Vessel)**

**Print Date: 4/26/2022**

Does the storage vessel  
have a Conservation Vent?

Have you attached a diagram  
showing the location and/or the  
configuration of this equipment?

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

Comments:

REFLUX DRUM T250

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E214519 (Storage Vessel)  
Print Date: 4/26/2022

What type of contents is this storage vessel equipped to contain by design?

Liquids Only

Storage Vessel Type:

Design Capacity:

2,800

Units:

gallons

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof  
Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

Does the storage vessel have  
a roof or an open top?

Roof Type:

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E214519 (Storage Vessel)**

**Print Date: 4/26/2022**

Does the storage vessel  
have a Conservation Vent?

Have you attached a diagram  
showing the location and/or the  
configuration of this equipment?

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

Comments:

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E214522 (Storage Vessel)  
Print Date: 4/26/2022

What type of contents is this storage vessel equipped to contain by design?

Liquids Only

Storage Vessel Type:

Design Capacity:

10,000

Units:

gallons

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof  
Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

Does the storage vessel have  
a roof or an open top?

Roof Type:

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E214522 (Storage Vessel)**

**Print Date: 4/26/2022**

Does the storage vessel  
have a Conservation Vent?

Have you attached a diagram  
showing the location and/or the  
configuration of this equipment?

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

Comments:

ALHOCOL TANK T5845

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E214523 (Storage Vessel)  
Print Date: 4/26/2022

What type of contents is this storage vessel equipped to contain by design?

Liquids Only

Storage Vessel Type:

Design Capacity:

30,000

Units:

gallons

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof  
Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

Does the storage vessel have  
a roof or an open top?

Roof Type:

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E214523 (Storage Vessel)**

**Print Date: 4/26/2022**

Does the storage vessel  
have a Conservation Vent?

Have you attached a diagram  
showing the location and/or the  
configuration of this equipment?

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

Comments:

COLUMN 9 FEED TANK T5851

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E214526 (Storage Vessel)  
Print Date: 4/26/2022

What type of contents is this storage vessel equipped to contain by design?

Liquids Only

Storage Vessel Type:

Design Capacity:

300

Units:

gallons

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof  
Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

Does the storage vessel have  
a roof or an open top?

Roof Type:

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E214526 (Storage Vessel)**

**Print Date: 4/26/2022**

Does the storage vessel  
have a Conservation Vent?

Have you attached a diagram  
showing the location and/or the  
configuration of this equipment?

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

Comments:

SURGE TANK T512

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E214589 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	VITAMIN C MOBILE TANKER
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	
Units:	
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:



85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E218004 (Storage Vessel)  
Print Date: 4/26/2022

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity: 25,000

Units: gallons

Ground Location: Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel: Cylindrical

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft): 39.00

Width (ft):

Diameter (ft): 10.50

Other Dimension

Description:

Value:

Units:

Fill Method: Submerged

Description (if other):

Maximum Design Fill Rate: 156.00

Units: gal/min

Does the storage vessel have a roof or an open top?

Roof

Roof Type: Horizontal fixed roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E218004 (Storage Vessel)**

**Print Date: 4/26/2022**

Does the storage vessel  
have a Conservation Vent?

Have you attached a diagram  
showing the location and/or the  
configuration of this equipment?

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

Comments:

25000 GAL. STORAGE TK. B3-9886 FOR ETHANOL
---

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E218005 (Storage Vessel)  
Print Date: 4/26/2022

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity: 25,000

Units: gallons

Ground Location: Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?  
Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel: Cylindrical

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft): 39.00

Width (ft):

Diameter (ft): 10.50

Other Dimension

Description:

Value:

Units:

Fill Method: Submerged

Description (if other):

Maximum Design Fill Rate: 156.00

Units: gal/min

Does the storage vessel have a roof or an open top? Roof

Roof Type: Horizontal fixed roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E218005 (Storage Vessel)**

**Print Date: 4/26/2022**

Does the storage vessel  
have a Conservation Vent?

Have you attached a diagram  
showing the location and/or the  
configuration of this equipment?

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

Comments:

25000 GAL. STORAGE TK. B3-9887 FOR ETHANOL
---

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E218011 (Storage Vessel)  
Print Date: 4/26/2022

What type of contents is this storage vessel equipped to contain by design?

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

25,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Gunitite Lining

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof  
Bottom) (ft):

Length (ft):

43.00

Width (ft):

Diameter (ft):

11.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

100.00

Units:

gal/min

Does the storage vessel have  
a roof or an open top?

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E218011 (Storage Vessel)**  
**Print Date: 4/26/2022**

Does the storage vessel  
have a Conservation Vent?

Have you attached a diagram  
showing the location and/or the  
configuration of this equipment?

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

Comments:

25000 GAL. STORAGE TK. B3-9917 FOR  
93% SULFURIC ACID

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E218012 (Storage Vessel)  
Print Date: 4/26/2022

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

25,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof  
Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

50.00

Units:

Does the storage vessel have  
a roof or an open top?

Roof Type:

Roof Height (From Roof  
Bottom  
to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E218012 (Storage Vessel)**

**Print Date: 4/26/2022**

Does the storage vessel  
have a Conservation Vent?

Have you attached a diagram  
showing the location and/or the  
configuration of this equipment?

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

Comments:

25000 GALLON STORAGE TANK FOR 93%  
SULFURIC ACID #ZTG-00013



Make:	X101A
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Premix Blending
Capacity:	6.00E+02
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

Make:	X105A
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	FINAL PRODUCT BLENDER
Capacity:	3.96E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222003 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	X106A
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	FINAL PRODUCT BLENDER (X106A)
Capacity:	3.96E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222004 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	X103A
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Granulation Predryer
Capacity:	7.20E+01
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

Make:	T105
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	SURGE HOPPER
Capacity:	1.60E+02
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222006 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	D101
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	LOSS IN WEIGH FEEDER
Capacity:	2.50E+00
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222007 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	RECYCLE DUMP STATION
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	RECYCLE DUMP STATION
Capacity:	5.00E+00
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222008 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	T106
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TOTE FILLER
Capacity:	5.00E+01
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:



Make:	V105
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	DRUM FILLER
Capacity:	6.00E+00
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222010 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	X104E
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	AIRLOCK X104E FOR X104A (NOODLE CON
Capacity:	
Units:	
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	AIRLOCK X104E FOR X104A (NOODLE CONVEYING SYSTEM)

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222011 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	AIRLOCK X107D (SIFTER)
Manufacturer:	SWECO
Model:	
Type of Manufacturing and Materials Handling Equipment:	OVER-SIZE CONVEYING SYSTEM (SIFTER)
Capacity:	
Units:	
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	AIRLOCK X107D SWECO OVER-SIZE CONVEYING SYSTEM (SIFTER)

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222012 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	X108G
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Product collection cyclone
Capacity:	1.00E+01
Units:	ft^3
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Product Collector-Hopper

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222013 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	CONE BLENDER (M101)
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	CONE BLENDER
Capacity:	2.40E+02
Units:	other units ▼
Description (if other):	SF

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222014 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	X108, X108C
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	DUMP STATION
Capacity:	5.00E+00
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222015 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	X104A
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	CONTINUOUS TUBULAR DRYER
Capacity:	1.00E+01
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222016 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	X107F
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	CONVEYING SYSTEM CYCLONE
Capacity:	1.00E+01
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222017 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	DUMP STATION T112
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	5.00E+00
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222018 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	DUMP STATION T113
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	5.00E+00
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222019 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	DUMP STATION T114
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	5.00E+00
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222020 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text" value="BIN AA T201"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text"/>
Capacity:	<input type="text" value="9.90E+02"/>
Units:	<input type="text" value="ft^3"/>
Description (if other):	<input type="text"/>

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222021 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text" value="BIN T207"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text"/>
Capacity:	<input type="text" value="5.00E+01"/>
Units:	<input type="text" value="ft^3"/>
Description (if other):	<input type="text"/>

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222022 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	V201B
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	5.00E+00
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

Make:	BIN T206
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.10E+01
Units:	other units
Description (if other):	SF

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

Make:	BLENDER X205
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.10E+01
Units:	other units
Description (if other):	SF

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:



Make:	BLENDER X206
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	6.00E+02
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

Make:	<input type="text" value="DRUMFILLV203"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text"/>
Capacity:	<input type="text" value="6.00E+00"/>
Units:	<input type="text" value="ft^3"/>
Description (if other):	<input type="text"/>

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

Make:	<input type="text" value="DRUMFILLV206"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text"/>
Capacity:	<input type="text" value="6.00E+02"/>
Units:	<input type="text" value="ft^3"/>
Description (if other):	<input type="text"/>

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

Make:	DUMP STATION X202D
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	5.00E+00
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222030 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	PULVERIZER D205 WITH CYCLO
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+01
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222031 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FEEDER X201G
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.20E+02
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222032 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	HOLD BIN AA T301
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.50E+02
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

Make:	<input type="text" value="SURGE BIN T303"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text"/>
Capacity:	<input type="text" value="3.30E+01"/>
Units:	<input type="text" value="ft^3"/>
Description (if other):	<input type="text"/>

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222034 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	BLENDER X303A
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.00E+02
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

Make:	PACKAGING V304
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.50E+01
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222036 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	BELT-FILTER PRESS X203
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	
Units:	
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes



Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No



Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222037 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	SLURRY KETTLE R203
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	8.00E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222038 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	REACTOR R201
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	8.00E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222039 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	SCRUBBER MOTHER LIQUOR TANK
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	
Units:	
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222040 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	TUBE DRYER X204A
Manufacturer:	Hebeler Process Solutions
Model:	26-CDT-12
Type of Manufacturing and Materials Handling Equipment:	Rotary Contact Dryer
Capacity:	1.20E+03
Units:	other units ▼
Description (if other):	Kilograms/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222042 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	GLATT FLUID BED DRYER X301A
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	6.00E+02
Units:	other units ▼
Description (if other):	kgs/hr

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:



Make:	DERIVATIVES: DUMP STATION
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.25E+01
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ☐

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ☐

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222044 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	AIR CLASSIFYING MILL
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	MEDIA MIX TANK
Capacity:	1.50E+02
Units:	gallons
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	MEETS INSIGNIFICANT DEFINITIONS

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222045 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	KTRON FEEDER F0301
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.00E+03
Units:	other units ▼
Description (if other):	lbs/hr

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E222046 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	DUMP STATION H0302
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.00E+03
Units:	other units ▼
Description (if other):	lbs/hr

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

Make: FIRE PUMP DRIVER #32

Manufacturer: CUMMINS

Model:

Equipment Type Description: FIRE PUMP DRIVER

Maximum Rated Gross Heat Input (MMBtu/hr): 2.5

Type of Heat Exchange:

Have you attached a diagram showing the location and/or configuration of this equipment? YES

Have you attached any manufacturer's data or specifications which may aid in the review of this application? NO

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O<sub>2</sub> in addition to lbs/hr and tons/yr.

Make:	FIRE PUMP DRIVER #33
Manufacturer:	CUMMINS
Model:	
Equipment Type Description:	FIRE PUMP DRIVER
Maximum Rated Gross Heat Input (MMBtu/hr):	2.5
Type of Heat Exchange:	
Have you attached a diagram showing the location and/or configuration of this equipment?	YES
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	NO
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	INOCULUM TANK R281
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

Make:	INOCULUM TANK R284
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240008 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R279
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240009 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R280
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240010 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R282
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240011 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R283
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240012 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	INOCULUM TANK R270
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240013 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	INOCULUM TANK R275
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+03
Units:	gallons ▼
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240014 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	INOCULUM TANK R278
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

Make:	FERMENTOR R260
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240016 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTER/STORAGE TANK
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	THIS VESSEL IS MULTIPURPOSE

Make:	FERMENTOR R273
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240018 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R274
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240019 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R276
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240020 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R277
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons ▼
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240022 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	INOCULUM TANK R218B
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240023 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	INOCULUM TANK R218C
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240024 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R220B
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240025 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R220C
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240026 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R220E
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240027 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R220F
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240028 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	MEDIA MIXING TANK R205
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.00E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240029 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	DUMP STATION T202
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.20E+04
Units:	other units ▼
Description (if other):	LB/BATCH

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240030 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R220A
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240031 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	FERMENTOR R220D
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240032 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	BEER WELL R300A
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	gallons ▼
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240039 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	STORAGE TANK T335
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+04
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240040 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	DISC STACK
Manufacturer:	ALFA LAVAL
Model:	FEUX 510
Type of Manufacturing and Materials Handling Equipment:	CENTRIFUGE
Capacity:	4.00E+03
Units:	other units ▼
Description (if other):	GALLONS PER HOUR
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240041 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	MEDIA MIX TANK T601
Manufacturer:	
Model:	S/S MIXING TANK
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.13E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E240042 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	DUMP STATION T607
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.20E+05
Units:	other units ▼
Description (if other):	LBS/BATCH

Have you attached a diagram showing the location and/or the configuration of this equipment?

No ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E241002 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	DECANTER T353A
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Enclosed screw conveyor
Capacity:	1.00E+03
Units:	other units ▼
Description (if other):	kg/hr

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E241003 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	EVAPORATOR/SEPARATOR S319
Manufacturer:	Ventilex
Model:	
Type of Manufacturing and Materials Handling Equipment:	Fluidized Bed Dryer
Capacity:	1.00E+03
Units:	other units ▼
Description (if other):	kg/hr (dry)
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	Product recovery system is comprised of 5 cyclones.

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E241004 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	DRYER D376
Manufacturer:	Vac U Max (or equivalent)
Model:	
Type of Manufacturing and Materials Handling Equipment:	Packaging Lines
Capacity:	1.00E+03
Units:	other units ▼
Description (if other):	kg/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	Packaging bags to be equipped with small HEPA filters for product recovery and protect product integrity.

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	SCREW CONVEYOR
Capacity:	1.00E+03
Units:	other units
Description (if other):	KG/HR
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E242002 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	VIBRO
Manufacturer:	NIRA
Model:	
Type of Manufacturing and Materials Handling Equipment:	FLUIDIZED BED DRYER
Capacity:	1.00E+03
Units:	other units ▼
Description (if other):	KG/HR

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

▼

Comments:

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	SURGE HOPPER AND PACKAGING AREA PI
Capacity:	1.00E+03
Units:	other units
Description (if other):	KG/HR
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E253001 (Emergency Generator)  
Print Date: 4/26/2022

Make:	Generac		
Manufacturer:	FPT/Iveco (2016)		
Model:	SD0100 (2016) Model Year		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.02		
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Comments:	100 kW 152 HP Displacement per cylinder: 6.7 L		

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E262001 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	HOPPER T-130
Manufacturer:	NIRO INC.
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+01
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E262002 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	TOWER D133
Manufacturer:	NIRO INC.
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+01
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E262003 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	DRYER D135
Manufacturer:	CHARCOAL SERVICE CORPORATION
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+01
Units:	ft^3
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E262004 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	DAY BIN T-155
Manufacturer:	NIRO INC.
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.00E+02
Units:	ft^3
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E262005 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	BLENDER M-160
Manufacturer:	PAUL ABBE
Model:	#RCB
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.76E+02
Units:	ft^3
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E262006 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	BULK BAG UNLOADING STATION K123
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	BULK AND BAG UNLOADING X0142/T0142
Capacity:	2.20E+03
Units:	other units ▼
Description (if other):	LB/HR

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E262007 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	BAG UNLOADING STATION K125
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.20E+03
Units:	other units ▼
Description (if other):	LB/BATCH APPROXIMATE
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E262008 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	DRUM UNLOADING STATION K130
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	HASSIA AND LOADING STATION
Capacity:	2.20E+03
Units:	other units ▼
Description (if other):	LB/HR

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E262009 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	PACKAGING AREA S161
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	SIFTER AND PACKAGING SYSTEM
Capacity:	2.20E+03
Units:	other units ▼
Description (if other):	LB/HR

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E262013 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="BAG DUMP STATION"/>
Capacity:	<input type="text" value="2.20E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="LBS/HR"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E262014 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	SHOPMADE
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	BULK RECEIVER
Capacity:	4.00E+01
Units:	ft^3
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E264001 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	LPF: PROCESS TANK:427
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+03
Units:	gallons
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E264002 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	LPF: PROCESS TANK: T-439
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+03
Units:	gallons ▼
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265001 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Bag Dump Station"/>
Capacity:	<input type="text" value="6.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lbs/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="F401A"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265002 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Bag Dump Station"/>
Capacity:	<input type="text" value="6.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lbs/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="F402A"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265003 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Bag Dump Station"/>
Capacity:	<input type="text" value="6.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lbs/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="F404A"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265004 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Ingredient Weighing Station"/>
Capacity:	<input type="text" value="9.00E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="W101"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265005 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Ingredient Weighing Station"/>
Capacity:	<input type="text" value="9.00E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="W102"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265006 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Lab Blender"/>
Capacity:	<input type="text" value="4.00E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="M204"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265007 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Lab Grinder Chute Dumper"/>
Capacity:	<input type="text" value="1.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="F203"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265008 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Lab Grinder Feed Chute Discharge"/>
Capacity:	<input type="text" value="1.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="G203"/>



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265009 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Lab Grinder Feed Chute Discharge"/>
Capacity:	<input type="text" value="1.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="G204"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265010 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Bag/Box/Drum Filler"/>
Capacity:	<input type="text" value="6.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="X513"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265011 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Pouch Line Form/Fill/Seal"/>
Capacity:	<input type="text" value="6.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="X504"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265012 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	Blender and Filling Line
Manufacturer:	Paterson Kelley
Model:	
Type of Manufacturing and Materials Handling Equipment:	Twin Shell Blender
Capacity:	5.00E+00
Units:	ft^3
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265013 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Blender #2 IBC Filler"/>
Capacity:	<input type="text" value="6.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="F402A"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265014 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Blender #4 IBC Filler"/>
Capacity:	<input type="text" value="1.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="F404A"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265015 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Blender #1 IBC Filler"/>
Capacity:	<input type="text" value="6.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/batch"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="F401A"/>

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265016 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	CPU: Blender #2: M402
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	8.00E+03
Units:	gallons ▼
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265017 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	CPU: Blender #4: M404
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.40E+03
Units:	gallons ▼
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265018 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	CPU: Blender #1: M401
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	8.00E+03
Units:	gallons ▼
Description (if other):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes ▼

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No ▼

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265019 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	
Manufacturer:	Gemco
Model:	Slant Cone
Type of Manufacturing and Materials Handling Equipment:	Blender
Capacity:	1.50E+03
Units:	other units
Description (if other):	lb/batch
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265020 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	F305
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Bag Dump Station
Capacity:	6.00E+03
Units:	other units
Description (if other):	lb/batch

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 E265021 (Manufacturing and Materials Handling Equipment)**  
**Print Date: 4/26/2022**

Make:	M0406 Post Lift Blender
Manufacturer:	Patterson Kelley Co.
Model:	MVP Model 400
Type of Manufacturing and Materials Handling Equipment:	Blender
Capacity:	3.00E+01
Units:	ft^3
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

**New Jersey Department of Environmental Protection  
Control Device Inventory**

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD202001	SCR	SCR System for Cogen	Selective Catalytic Reduction	3/19/2012	No		
CD202002	OxiCat	Oxidation Catalyst System for Cogen	Oxidizer (Catalytic)	3/19/2012	No		
CD209001	S-711	SPRAY DRY/CHILL: MICROCLONE	Cyclone		No		
CD209002	S-708	SPRAY DRY/CHILL: WET SCRUBBER	Scrubber (Other)		No		
CD209003	B-212	DUST COLLECTOR B-212	Particulate Filter (Baghouse)		No		
CD209004	X-105	DUST COLLECTOR X-105	Particulate Filter (Cartridge)	12/1/2010	No		
CD209005	209S0102	BIN VENT FILTER 209S0102	Particulate Filter (Baghouse)		No		
CD209006	209S0103	BIN VENT FILTER 209S0103	Particulate Filter (Baghouse)		No		
CD209007	HOFFMAN VAC	CENTRIFUGAL SEPARATOR FOR HOFFMAN HOUSE VACUUM SYSTEM	Cyclone		No		
CD209009	S602A	TRANSFER SEPARATOR	Particulate Filter (Other)	12/10/2008	No		
CD209010	S602B	TRANSFER SEPARATOR	Particulate Filter (Other)	12/10/2008	No		
CD209011	PUMP FILTER	VACUUM PUMP FILTERS	Particulate Filter (Cartridge)	12/10/2008	No		
CD209012	S603A	DUST COLLECTOR	Particulate Filter (Cartridge)	12/10/2008	No		

New Jersey Department of Environmental Protection  
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD209013	GSHV		Particulate Filter (Cartridge)		No		
CD214506	E0537	E0537	Condenser		No		
CD214507	E5789	E5789	Condenser		No		
CD214516	E0513	E0513	Condenser		No		
CD222001	X103E	DERIVATIVES: DUST COLLECTOR X103	Particulate Filter (Baghouse)		No		
CD222002	DCX108H	DERIVATIVES: DUST COLLECTOR DCX108H	Particulate Filter (Baghouse)		No		
CD222003	DCS104	DERIVATIVES: DUST COLLECTOR DCS104	Particulate Filter (Cartridge)		No		
CD222004	S101	DERIVATIVES: DUST COLLECTOR S101	Particulate Filter (Cartridge)		No		
CD222005	S107	DERIVATIVES: DUST COLLECTOR S107	Particulate Filter (Cartridge)		No		
CD222006	X108E	DERIVATIVES: DUST COLLECTOR X108E	Particulate Filter (Baghouse)		No		
CD222007	DCX104F	DERIVATIVES: DUST COLLECTOR DCX104F	Particulate Filter (Baghouse)		No		
CD222008	DCS114	DERIVATIVES: DUST COLLECTOR DCS114	Particulate Filter (Cartridge)		No		
CD222009	DCX208A	DERIVATIVES: DUST COLLECTOR DCX208A	Particulate Filter (Baghouse)		No		

**New Jersey Department of Environmental Protection  
Control Device Inventory**

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD222011	DC202A	DERIVATIVES: DUST COLLECTOR DC202A	Particulate Filter (Baghouse)		No		
CD222012	DCX207E	DERIVATIVES: DUST COLLECTOR DCX207E	Particulate Filter (Baghouse)		No		
CD222013	DCX201E	DERIVATIVES: DUST COLLECTOR DCX201E	Particulate Filter (Baghouse)		No		
CD222014	DCX302A	DERIVATIVES: DUST COLLECTOR DCX302A	Particulate Filter (Baghouse)		No		
CD222016	X204F	DERIVATIVES: DUST COLLECTOR X204F	Particulate Filter (Baghouse)		No		
CD222017	C202	DERIVATIVES: SCRUBBER C202	Scrubber (Other)		No		
CD222018	C201	DERIVATIVES: SCRUBBER C201	Scrubber (Other)		No		
CD222019	X303J	DERIVATIVES DUST COLLECTOR X303J	Particulate Filter (Baghouse)		No		
CD222020	S0306	DERIVATIVES: DUST COLLECTOR S0306	Particulate Filter (Baghouse)		No		
CD222021	S0307	DERIVATIVES: DUST COLLECTOR S0307	Particulate Filter (Baghouse)		No		
CD240006	T250	BLDG 240: RETENTION CHAMBER T250	Scrubber (Other)		No		
CD240007	T230	BLDG 240: RETENTION CHAMBER T230	Scrubber (Other)		No		
CD240008	T205	BLDG 240: SCRUBBER T205	Scrubber (Other)		No		



New Jersey Department of Environmental Protection  
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD240012	B226	BLDG 240: ROTOCONE	Scrubber (Other)		No		
CD240013	C0274	FERM SCRUBBER	Scrubber (Packed Tower)		No		
CD240014	C0601	SCRUBBER C0601	Scrubber (Other)		No		
CD242001	S0505	BLDG 242: DUST COLLECTOR S0505	Particulate Filter (Baghouse)	11/1/2003	No		
CD262001	S136	OPTIMA: CYCLONE S136	Cyclone		No		
CD262003	K138	OPTIMA DUST COLLECTOR S138	Particulate Filter (Cartridge)		No		
CD262004	S190	OPTIMA DUST COLLECTOR S190	Particulate Filter (Cartridge)	12/15/2010	No		
CD264001	B264 X404	LPF: WET SCRUBBER X404	Scrubber (Other)				
CD265001	B265 DC-X570	CPU: DUST COLLECTOR B265 DC-X570	Particulate Filter (Cartridge)	8/1/1997	No	8/1/1997	
CD265002	B265 DC-S402	CPU: DUST COLLECTOR B265 DC-S402	Particulate Filter (Cartridge)				
CD265003	B265 DC-S401	CPU: DUST COLLECTOR B265 DC-S401	Particulate Filter (Cartridge)				
CD265004	B265 DC-S404	CPU: DUST COLLECTOR B265 DC-S404	Particulate Filter (Cartridge)				

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD202001 (Selective Catalytic Reduction)  
Print Date: 4/26/2022

Make:	
Manufacturer:	VECTOR
Model:	
Minimum Temperature at Catalyst Bed (°F):	500
Maximum Temperature at Catalyst Bed (°F):	780
Minimum Temperature at Reagent Injection Point (°F):	
Maximum Temperature at Reagent Injection Point (°F):	
Type of Reagent:	Ammonia ▼
Description:	
Chemical Formula of Reagent:	19% ammonium hydroxide solution in water
Minimum Reagent Charge Rate (gpm):	
Maximum Reagent Charge Rate (gpm):	
Minimum Concentration of Reagent in Solution (% Volume):	19
Minimum NOx to Reagent Mole Ratio:	
Maximum NOx to Reagent Mole Ratio:	
Maximum Anticipated Ammonia Slip (ppm):	5
Type of Catalyst:	HOMOGENOUS HONEYCOMB
Volume of Catalyst (ft³):	53
Form of Catalyst:	
Anticipated Life of Catalyst:	26500
Units:	▼
Have you attached a catalyst replacement schedule?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Method of Determining Breakthrough:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	2
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD202001 (Selective Catalytic Reduction)**  
**Print Date: 4/26/2022**

Comments:

Temperture range revised based on 2-24-12 revsied  
CD Details.  
Ammonia flow rate between 3.96 and 29 lb/hr (not  
gpm) based on Rentech SCR Data submitted by  
DSM 5/3/12.

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD202002 (Oxidizer (Catalytic))  
Print Date: 4/26/2022

Make:	Oxidation Catalyst System
Manufacturer:	Eno-Chem
Model:	
Minimum Inlet Temperature (°F):	350
Maximum Inlet Temperature (°F)	1175
Minimum Outlet Temperature (°F)	
Maximum Outlet Temperature (°F):	
Minimum Residence Time (sec)	
Fuel Type:	
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	
Minimum Pressure Drop Across Catalyst (psi):	0.3
Maximum Pressure Drop Across Catalyst (psi):	6
Catalyst Material:	Platinum catalyst on metallic substrate
Form of Catalyst:	
Description:	
Minimum Expected Life of Catalyst:	
Units:	
Volume of Catalyst (ft³):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	2
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	81-86% CO DRE for 70% design. Near 350F (light off); maximum performance between 600F and 1100F for CO.

Make:	SPRAY DRY/CHILL: MICROCLONE S-711
Manufacturer:	
Model:	
Unit Type:	
Description:	
Major Cylinder Diameter, Dc (ft):	0.41
Major Cylinder Length, Lc (ft):	0.75
Gas Outlet Diameter, De (ft):	0.2
Gas Inlet Height, He (ft):	0.33
Gas Inlet Width, Bc (ft):	0.125
Gas Outlet Length, Hc + Sc [usually 5/8 Dc] (ft):	IN MANIFOLD
Cone Length, Zc (ft):	0.5
Dust Outlet, Jc (ft):	IN MANIFOLD
Effective Number of Turns, Ne:	4
Inlet Gas Velocity, Vi (ft/min):	3500
True Particle Density (lbs/ft <sup>3</sup> ):	
Average Particle Size (Micrometers):	9
Gas Temperature (deg F):	428
Have You Attached a Particle Size Distribution Analysis?	NO
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	3

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	S-708 WET SCRUBBER
Manufacturer:	SLY
Model:	150 IMPINJET
Scrubber Type:	VENTURI
Description:	
Is the Scrubber used for Particulate Control?	YES
Is the Scrubber used for Gas Control?	NO
Is the Scrubber Equipped with a Mist Eliminator?	
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	65009
Maximum Operating Gas Flow Rate (acfm):	10600
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	TBD



Maximum Operating  
Pressure Drop (in. H<sub>2</sub>O):

Method of Monitoring  
Pressure Drop:

PLC

Relative Direction of the  
Gas-Liquid Flow:

Number of Plates:

Type of Plates:

Spacing Between Plates (in.):

Maximum Inlet Gas  
Temperature (deg F):

345

Maximum Outlet Gas  
Temperature (deg F):

Inlet Particle Grain Loading  
(gr/dscf):

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached data from  
recent performance testing?

NO

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

NO

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

YES

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	DUST COLLECTOR B-212
Manufacturer:	DCE
Model:	DU20RF3AD
Number of Bags:	20
Size of Bags (ft2 ):	3.25X1.5
Total Bag Area (ft2):	215
Bag Fabric:	POYESTER
Fabric Weight (oz/ft):	16
Fabric Weave:	
Fabric Finish:	GORETEX
Maximum Design Temperature Capability (deg F):	240
Maximum Design Air Flow Rate (acfm):	1500
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	TBD
Maximum Operating Pressure Drop (in. H2O):	12
Method of Monitoring Pressure Drop:	
Maximum Inlet Temperature (deg F):	
Minimum Inlet Temperature (deg F):	
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Maximum Inlet Gas Stream Moisture Content (%):	10

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

PULSE JET

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

4

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

NO

Have you attached data from  
recent performance testing?

NO

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

NO

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

YES

Comments:

### Control Device Design Efficiency Table

[illegible]

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD209004 (Particulate Filter (Cartridge))**

**Print Date: 4/26/2022**

Make:	HEMIPLEAT
Manufacturer:	CAMFIL/FARR
Model:	HMPTU-325
Number of Cartridges:	6
Size of Cartridges (ft²):	325.00
Total Cartridge Area (ft²):	1,950.00
Maximum Design Temperature Capability (°F):	160.0
Maximum Design Air Flow Rate (acfm):	7,800.0
Maximum Air Flow Rate to Filter Area Ratio:	4.00
Minimum Operating Pressure Drop (in. H2O):	0.20
Maximum Operating Pressure Drop (in. H2O):	10.00
Maximum Inlet Temperature (°F):	100.0
Maximum Operating Exhaust Gas Flow Rate (acfm):	4,800.0

Method for Determining When Cartridge Replacement is Required:

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis?

☐ Yes
 ☒ No

Have you attached data from recent performance testing?

☐ Yes
 ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

☒ Yes
 ☐ No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

☐ Yes
 ☒ No

Comments:

SAME AS ORIGINAL

Make:	BIN VENT FILTER 209S0102
Manufacturer:	SMOOT
Model:	96BV16
Number of Bags:	
Size of Bags (ft2 ):	
Total Bag Area (ft2):	200
Bag Fabric:	POLYESTER
Fabric Weight (oz/ft):	16
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (deg F):	
Maximum Design Air Flow Rate (acfm):	1200
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	12
Method of Monitoring Pressure Drop:	PLC
Maximum Inlet Temperature (deg F):	
Minimum Inlet Temperature (deg F):	
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:



### Control Device Design Efficiency Table

[illegible]

Make:	BIN VENT FILTER 209S0103
Manufacturer:	SMOOT
Model:	48BV9
Number of Bags:	
Size of Bags (ft2 ):	
Total Bag Area (ft2):	56
Bag Fabric:	POLYESTER
Fabric Weight (oz/ft):	16
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (deg F):	
Maximum Design Air Flow Rate (acfm):	350
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	12
Method of Monitoring Pressure Drop:	PLC
Maximum Inlet Temperature (deg F):	
Minimum Inlet Temperature (deg F):	
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

PULSE JET

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

NO

Have you attached data from  
recent performance testing?

NO

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

NO

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

YES

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	Centrifugal Separator
Manufacturer:	
Model:	
Unit Type:	
Description:	
Major Cylinder Diameter, Dc (ft):	3.33
Major Cylinder Length, Lc (ft):	6
Gas Outlet Diameter, De (ft):	0.5
Gas Inlet Height, He (ft):	0.5
Gas Inlet Width, Bc (ft):	0.5
Gas Outlet Length, Hc + Sc [usually 5/8 Dc] (ft):	NA
Cone Length, Zc (ft):	2.33
Dust Outlet, Jc (ft):	0.66
Effective Number of Turns, Ne:	NA
Inlet Gas Velocity, Vi (ft/min):	4000
True Particle Density (lbs/ft <sup>3</sup> ):	
Average Particle Size (Micrometers):	
Gas Temperature (deg F):	70
Have You Attached a Particle Size Distribution Analysis?	NO
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	

**Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:**

**Have you attached data from  
recent performance testing?**

**Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?**

**Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?**

**Comments:**

### Control Device Design Efficiency Table

[illegible]

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD209009 (Particulate Filter (Other))**

**Print Date: 4/26/2022**

Make:

DIETRICH ENGINEERING

Manufacturer:

DIETRICH ENGINEERING

Model:

DN300

Filter Description:

MEMBRANE WITH 2 LAYERS, POLYESTER FELT AND PTFE

Total Filter Area (ft²):

1.00

Maximum Design Temperature Capability (°F):

302.0

Maximum Design Air Flow Rate (acfm):

290.0

Maximum Air Flow Rate to Filter Area Ratio:

Minimum Operating Pressure Drop (in. H2O):

0.50

Maximum Operating Pressure Drop (in. H2O):

8.00

Maximum Inlet Temperature (°F):

Maximum Operating Exhaust Gas Flow Rate (acfm):

220.0

Method for Determining When Filter Replacement is Required:

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis?

☐ Yes ☒ No

Have you attached data from recent performance testing?

☐ Yes ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

☐ Yes ☒ No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

☐ Yes ☒ No

Comments:



85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD209009 (Particulate Filter (Other))  
Print Date: 4/26/2022

## 85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD209010 (Particulate Filter (Other))

Print Date: 4/26/2022

Make:	DIETRICH ENGINEERING
Manufacturer:	DIETRICH ENGINEERING
Model:	DN300
Filter Description:	MEMBRANE WITH 2 LAYERS, POLYESTER FELT AND PTFE

Total Filter Area (ft²):	1.00
Maximum Design Temperature Capability (°F):	302.0
Maximum Design Air Flow Rate (acfm):	290.0
Maximum Air Flow Rate to Filter Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	0.50
Maximum Operating Pressure Drop (in. H2O):	8.00
Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	220.0

Method for Determining When Filter Replacement is Required:

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis?

☐ Yes ☒ No

Have you attached data from recent performance testing?

☐ Yes ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

☐ Yes ☒ No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

☐ Yes ☒ No

Comments:

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD209010 (Particulate Filter (Other))  
Print Date: 4/26/2022

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD209011 (Particulate Filter (Cartridge))**  
**Print Date: 4/26/2022**

Make:	BUSH
Manufacturer:	BUSH
Model:	532.004.000
Number of Cartridges:	2
Size of Cartridges (ft²):	14.00
Total Cartridge Area (ft²):	14.00
Maximum Design Temperature Capability (°F):	
Maximum Design Air Flow Rate (acfm):	290.0
Maximum Air Flow Rate to Filter Area Ratio:	21.00
Minimum Operating Pressure Drop (in. H2O):	0.50
Maximum Operating Pressure Drop (in. H2O):	8.00
Maximum Inlet Temperature (°F):	120.0
Maximum Operating Exhaust Gas Flow Rate (acfm):	220.0

Method for Determining When Cartridge Replacement is Required:

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Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

1
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Alternative Method to Demonstrate Control Apparatus is Operating Properly:

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Have you attached a Particle Size Distribution Analysis?

<input type="radio"/> Yes <input checked="" type="radio"/> No
---

Have you attached data from recent performance testing?

<input type="radio"/> Yes <input checked="" type="radio"/> No
---

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

<input type="radio"/> Yes <input checked="" type="radio"/> No
---

Have you attached a diagram showing the location and/or configuration of this control apparatus?

<input checked="" type="radio"/> Yes <input type="radio"/> No
---

Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD209012 (Particulate Filter (Cartridge))**  
**Print Date: 4/26/2022**

Make:	FARR
Manufacturer:	FARR
Model:	HMPTU-325
Number of Cartridges:	4
Size of Cartridges (ft²):	325.00
Total Cartridge Area (ft²):	1,300.00
Maximum Design Temperature Capability (°F):	180.0
Maximum Design Air Flow Rate (acfm):	5,200.0
Maximum Air Flow Rate to Filter Area Ratio:	4.00
Minimum Operating Pressure Drop (in. H2O):	0.50
Maximum Operating Pressure Drop (in. H2O):	8.00
Maximum Inlet Temperature (°F):	120.0
Maximum Operating Exhaust Gas Flow Rate (acfm):	2,500.0

Method for Determining When Cartridge Replacement is Required:

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

4

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis?

☐ Yes ☒ No

Have you attached data from recent performance testing?

☐ Yes ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

☒ Yes ☐ No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

☒ Yes ☐ No

Comments:

Make:	Pulse Jet Baghouse For House Vacuum System
Manufacturer:	Hoffman Air and Filtration
Model:	hpc 14-84
Number of Bags:	14
Size of Bags (ft2 ):	3.5
Total Bag Area (ft2):	148
Bag Fabric:	pOLYESTER
Fabric Weight (oz/ft):	16
Fabric Weave:	
Fabric Finish:	nEEDLET fELT
Maximum Design Temperature Capability (deg F):	240
Maximum Design Air Flow Rate (acfm):	900
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	6:01
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	10
Method of Monitoring Pressure Drop:	None
Maximum Inlet Temperature (deg F):	90
Minimum Inlet Temperature (deg F):	
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

Pulse Jet

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]



**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD209013 (Particulate Filter (Cartridge))**

**Print Date: 4/26/2022**

Make:	FARR
Manufacturer:	FARR
Model:	GSHV
Number of Cartridges:	2
Size of Cartridges (ft²):	197.00
Total Cartridge Area (ft²):	374.00
Maximum Design Temperature Capability (°F):	180.0
Maximum Design Air Flow Rate (acfm):	900.0
Maximum Air Flow Rate to Filter Area Ratio:	2.30
Minimum Operating Pressure Drop (in. H2O):	0.25
Maximum Operating Pressure Drop (in. H2O):	8.00
Maximum Inlet Temperature (°F):	120.0
Maximum Operating Exhaust Gas Flow Rate (acfm):	720.0

Method for Determining When Cartridge Replacement is Required:

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis?

☐ Yes
 ☒ No

Have you attached data from recent performance testing?

☐ Yes
 ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

☒ Yes
 ☐ No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

☒ Yes
 ☐ No

Comments:

Make:	CONDENSER E537
Manufacturer:	
Model:	
Condenser Type:	
Type of Material of Which Shell Is Constructed:	
Type of Material of Which Tubes Are Constructed:	
Minimum Gas Inlet Temperature (deg F):	
Maximum Gas Inlet Temperature (deg F):	
Heat Transfer (Contact) Surface Area (ft2):	
Maximum Gas Flow (acfm):	
Minimum Cooling Medium Flow Rate (gpm):	
Maximum Cooling Medium Flow Rate (gpm):	
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	
Maximum Cooling Medium Inlet Temperature (deg F):	
Minimum Cooling Medium Outlet Temperature (deg F):	
Maximum Cooling Medium Outlet Temperature (deg F):	
Minimum Gas Outlet Temperature (deg F):	
Maximum Gas Outlet Temperature (deg F):	
Minimum Condensate Outlet Temperature (deg F):	
Maximum Condensate Outlet Temperature (deg F):	

Type of Cooling Medium:

Use of Condenser:

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):  18

Alternative Method to Demonstrate Control Apparatus is Operating Properly:  NONE

Have you attached data from recent performance testing?  NO

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?  NO

Have you attached a diagram showing the location and/or configuration of this control apparatus?  YES

Comments:  FOR INFORMATIONAL PURPOSES ONLY

### Control Device Design Efficiency Table

[illegible]

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD214507 (Condenser)  
Print Date: 4/26/2022

Make:	TEMA-BEM
Manufacturer:	MANNING & LEWIS
Model:	
Condenser Type:	SH
Type of Material of Which Shell Is Constructed:	CARBON STEEL
Type of Material of Which Tubes Are Constructed:	304 SS
Minimum Gas Inlet Temperature (°F):	0.0
Maximum Gas Inlet Temperature (°F):	100.0
Heat Transfer (Contact) Surface Area (ft²):	100.0
Maximum Gas Flow (acfm):	
Minimum Cooling Medium Flow Rate (gpm):	0.5
Maximum Cooling Medium Flow Rate (gpm):	15.0
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (°F):	10
Maximum Cooling Medium Inlet Temperature (°F):	25
Minimum Cooling Medium Outlet Temperature (°F):	12
Maximum Cooling Medium Outlet Temperature (°F):	25
Minimum Gas Outlet Temperature (°F):	
Maximum Gas Outlet Temperature (°F):	
Minimum Condensate Outlet Temperature (°F):	
Maximum Condensate Outlet Temperature (°F):	
Type of Cooling Medium:	BRINE
Use of Condensate:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	4
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	

Have you attached data from recent performance testing?

☐ Yes ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

☒ Yes ☐ No

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD214507 (Condenser)  
Print Date: 4/26/2022

Have you attached a diagram showing the location and/or configuration of this control apparatus?

☒ Yes ☐ No

Comments:

Air flow from this condenser is regulated by a conservation vent rated at 4 " water. The conservation vent has been observed to be closed most of the time.

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD214516 (Condenser)  
Print Date: 4/26/2022

Make:	BEM-FTS
Manufacturer:	DOYLE & ROTH
Model:	
Condenser Type:	SH
Type of Material of Which Shell Is Constructed:	316 SS
Type of Material of Which Tubes Are Constructed:	316 SS
Minimum Gas Inlet Temperature (°F):	0.0
Maximum Gas Inlet Temperature (°F):	100.0
Heat Transfer (Contact) Surface Area (ft²):	204.0
Maximum Gas Flow (acfm):	
Minimum Cooling Medium Flow Rate (gpm):	0.5
Maximum Cooling Medium Flow Rate (gpm):	30.0
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (°F):	10
Maximum Cooling Medium Inlet Temperature (°F):	25
Minimum Cooling Medium Outlet Temperature (°F):	12
Maximum Cooling Medium Outlet Temperature (°F):	25
Minimum Gas Outlet Temperature (°F):	
Maximum Gas Outlet Temperature (°F):	
Minimum Condensate Outlet Temperature (°F):	
Maximum Condensate Outlet Temperature (°F):	
Type of Cooling Medium:	BRINE
Use of Condensate:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	4
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	

Have you attached data from recent performance testing?

☐ Yes ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

☒ Yes ☐ No

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD214516 (Condenser)  
Print Date: 4/26/2022

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

☒ Yes ☐ No

Comments:



Make:	222-DC103E
Manufacturer:	YOUNG INDUSTRIES
Model:	
Number of Bags:	115
Size of Bags (ft2 ):	.41'X10'
Total Bag Area (ft2):	1165
Bag Fabric:	POLYESTER FELT / ORLON
Fabric Weight (oz/ft):	16
Fabric Weave:	NON-WOVEN
Fabric Finish:	HEAVY SINGED / GLAZED
Maximum Design Temperature Capability (deg F):	275
Maximum Design Air Flow Rate (acfm):	10230
Draft Type:	NA
Maximum Air Flow Rate to Cloth Area Ratio:	9:01
Minimum Operating Pressure Drop (in. H2O):	6
Maximum Operating Pressure Drop (in. H2O):	10
Method of Monitoring Pressure Drop:	PRESSURE DIFFERENTIAL INDICATOR
Maximum Inlet Temperature (deg F):	140
Minimum Inlet Temperature (deg F):	140
Dew Point of Gas Stream (deg F):	NA
Maximum Operating Exhaust Gas Flow Rate (acfm):	10230
Maximum Inlet Gas Stream Moisture Content (%):	4

Method for Determining  
When Bag Replacement is  
Required: PRESSURE DIFFERENTIAL INDICATOR

Method for Determining  
When Cleaning is Required: PRESSURE DIFFERENTIAL INDICATOR

Method of Bag Cleaning: Pulse Jet

Is Bag Cleaning Conducted  
On-Line? NO

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources): 9

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly: NA

Have you attached a Particle  
Size Distribution Analysis? NO

Have you attached data from  
recent performance testing? NO

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus? NO

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus? YES

Comments: 1

### Control Device Design Efficiency Table

[illegible]

Make:	222-DC103E
Manufacturer:	YOUNG INDUSTRIES
Model:	
Number of Bags:	115
Size of Bags (ft2 ):	.41'X10'
Total Bag Area (ft2):	1165
Bag Fabric:	POLYESTER FELT / ORLON
Fabric Weight (oz/ft):	16
Fabric Weave:	NON-WOVEN
Fabric Finish:	HEAVY SINGED / GLAZED
Maximum Design Temperature Capability (deg F):	275
Maximum Design Air Flow Rate (acfm):	10230
Draft Type:	NA
Maximum Air Flow Rate to Cloth Area Ratio:	9:01
Minimum Operating Pressure Drop (in. H2O):	6
Maximum Operating Pressure Drop (in. H2O):	10
Method of Monitoring Pressure Drop:	PRESSURE DIFFERENTIAL INDICATOR
Maximum Inlet Temperature (deg F):	140
Minimum Inlet Temperature (deg F):	140
Dew Point of Gas Stream (deg F):	NA
Maximum Operating Exhaust Gas Flow Rate (acfm):	10230
Maximum Inlet Gas Stream Moisture Content (%):	4

Method for Determining  
When Bag Replacement is  
Required: PRESSURE DIFFERENTIAL INDICATOR

Method for Determining  
When Cleaning is Required: PRESSURE DIFFERENTIAL INDICATOR

Method of Bag Cleaning: Pulse Jet

Is Bag Cleaning Conducted  
On-Line? NO

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources): 9

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly: NA

Have you attached a Particle  
Size Distribution Analysis? NO

Have you attached data from  
recent performance testing? NO

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus? NO

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus? YES

Comments: 1

### Control Device Design Efficiency Table

[illegible]

Make:	DCS104
Manufacturer:	FLEX KLEEN
Model:	30PCBL8
Number of Cartridges:	8
Size of Cartridges (ft2):	0.5X3
Total Cartridge Area (ft2):	240
Maximum Design Temperature Capability (deg F):	180
Maximum Design Air Flow Rate (acfm):	730
Maximum Air Flow Rate to Filter Area Ratio:	3:01
Minimum Operating Pressure Drop (in. H2O):	3
Maximum Operating Pressure Drop (in. H2O):	6
Maximum Inlet Temperature (deg F):	70
Maximum Operating Exhaust Gas Flow Rate (acfm):	730
Method for Determining When Cartridge Replacement is Required:	PRESSURE DIFFERENTIAL INDICATOR
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	NONE
Have you attached a Particle Size Distribution Analysis?	NO
Have you attached data from recent performance testing?	NO

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

NO
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Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

YES
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Comments:

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### Control Device Design Efficiency Table

[illegible]

Make:	S101
Manufacturer:	SEMCO FLOTRONICS
Model:	#18VFR14
Number of Cartridges:	9
Size of Cartridges (ft2):	0.5 X 1.64
Total Cartridge Area (ft2):	177
Maximum Design Temperature Capability (deg F):	225
Maximum Design Air Flow Rate (acfm):	369
Maximum Air Flow Rate to Filter Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	10
Maximum Inlet Temperature (deg F):	100
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Method for Determining When Cartridge Replacement is Required:	DIFFERENTIAL PRESSURE INDICATOR
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	NONE
Have you attached a Particle Size Distribution Analysis?	NO
Have you attached data from recent performance testing?	NO

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

NO
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Have you attached a diagram showing the location and/or configuration of this control apparatus?

YES
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Comments:

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### Control Device Design Efficiency Table

[illegible]

Make:	S107 GUARD FILTER
Manufacturer:	SEMCO FLOTRONICS
Model:	TGF 500
Number of Cartridges:	1
Size of Cartridges (ft2):	0.5'X1.64'
Total Cartridge Area (ft2):	2.57
Maximum Design Temperature Capability (deg F):	180
Maximum Design Air Flow Rate (acfm):	500
Maximum Air Flow Rate to Filter Area Ratio:	0:00
Minimum Operating Pressure Drop (in. H2O):	6
Maximum Operating Pressure Drop (in. H2O):	9
Maximum Inlet Temperature (deg F):	100
Maximum Operating Exhaust Gas Flow Rate (acfm):	500
Method for Determining When Cartridge Replacement is Required:	LOW PRESSURE SWITCH AND ALARM ON PLC
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	NONE
Have you attached a Particle Size Distribution Analysis?	NO
Have you attached data from recent performance testing?	NO

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

NO
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Have you attached a diagram showing the location and/or configuration of this control apparatus?

YES
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Comments:

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### Control Device Design Efficiency Table

[illegible]

Make:	X108E
Manufacturer:	
Model:	
Number of Bags:	8
Size of Bags (ft2 ):	1.5
Total Bag Area (ft2):	288
Bag Fabric:	Polyester Felt
Fabric Weight (oz/ft):	16
Fabric Weave:	NA
Fabric Finish:	Egg Shell
Maximum Design Temperature Capability (deg F):	275
Maximum Design Air Flow Rate (acfm):	1300
Draft Type:	NA
Maximum Air Flow Rate to Cloth Area Ratio:	4.5:1
Minimum Operating Pressure Drop (in. H2O):	NA
Maximum Operating Pressure Drop (in. H2O):	NA
Method of Monitoring Pressure Drop:	NA
Maximum Inlet Temperature (deg F):	NA
Minimum Inlet Temperature (deg F):	NA
Dew Point of Gas Stream (deg F):	NA
Maximum Operating Exhaust Gas Flow Rate (acfm):	1300
Maximum Inlet Gas Stream Moisture Content (%):	5.6



Method for Determining  
When Bag Replacement is  
Required:

NA

Method for Determining  
When Cleaning is Required:

NA

Method of Bag Cleaning:

Pulse Jet

Is Bag Cleaning Conducted  
On-Line?

NA

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

1

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

NA

Have you attached a Particle  
Size Distribution Analysis?

NO

Have you attached data from  
recent performance testing?

NO

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

NO

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	DUST COLLECTOR X104F
Manufacturer:	RESEARCH-COTTREL, FLEX CLEAN
Model:	84-CT-30-II
Number of Bags:	30
Size of Bags (ft2 ):	7.2'X0.48'
Total Bag Area (ft2):	324
Bag Fabric:	DACRON
Fabric Weight (oz/ft):	16
Fabric Weave:	FELT
Fabric Finish:	GLAZED ONE SIDE
Maximum Design Temperature Capability (deg F):	275
Maximum Design Air Flow Rate (acfm):	1500
Draft Type:	NA
Maximum Air Flow Rate to Cloth Area Ratio:	4.6:1
Minimum Operating Pressure Drop (in. H2O):	0.2
Maximum Operating Pressure Drop (in. H2O):	10
Method of Monitoring Pressure Drop:	PRESSURE DIFFERENTIAL INDICATOR
Maximum Inlet Temperature (deg F):	170
Minimum Inlet Temperature (deg F):	170
Dew Point of Gas Stream (deg F):	NA
Maximum Operating Exhaust Gas Flow Rate (acfm):	1500
Maximum Inlet Gas Stream Moisture Content (%):	0.09-0.73

Method for Determining  
When Bag Replacement is  
Required: PDI

Method for Determining  
When Cleaning is Required: PDI

Method of Bag Cleaning: Pulse Jet

Is Bag Cleaning Conducted  
On-Line? NA

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources): 2

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly: NONE

Have you attached a Particle  
Size Distribution Analysis? NO

Have you attached data from  
recent performance testing? NO

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus? NO

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus? YES

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	DCS114
Manufacturer:	UNICELL
Model:	C242.G8
Number of Cartridges:	6
Size of Cartridges (ft2):	1.5X2.5
Total Cartridge Area (ft2):	43
Maximum Design Temperature Capability (deg F):	140
Maximum Design Air Flow Rate (acfm):	1000
Maximum Air Flow Rate to Filter Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Maximum Inlet Temperature (deg F):	70
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Method for Determining When Cartridge Replacement is Required:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	6
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	NO
Have you attached data from recent performance testing?	NO

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

NO
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Have you attached a diagram showing the location and/or configuration of this control apparatus?

YES
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Comments:

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### Control Device Design Efficiency Table

[illegible]



Make:	DUST COLLECTOR DCX208A
Manufacturer:	YOUNG INDUSTRIES
Model:	VC 63-24-48
Number of Bags:	24
Size of Bags (ft2 ):	0.45 X 5.25
Total Bag Area (ft2):	164
Bag Fabric:	POLYESTER
Fabric Weight (oz/ft):	16
Fabric Weave:	FELT
Fabric Finish:	EGG SHELL
Maximum Design Temperature Capability (deg F):	275
Maximum Design Air Flow Rate (acfm):	600
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	10
Method of Monitoring Pressure Drop:	PRESSURE DIFFERENTIAL INDICATOR
Maximum Inlet Temperature (deg F):	105
Minimum Inlet Temperature (deg F):	35
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	DUST COLLECTOR DC202A
Manufacturer:	YOUNG INDUSTRIES
Model:	
Number of Bags:	8
Size of Bags (ft2 ):	
Total Bag Area (ft2):	36
Bag Fabric:	POLYESTER FELT
Fabric Weight (oz/ft):	16
Fabric Weave:	NON WOVEN
Fabric Finish:	GLAZED
Maximum Design Temperature Capability (deg F):	275
Maximum Design Air Flow Rate (acfm):	1500
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	TBD
Maximum Operating Pressure Drop (in. H2O):	TBD
Method of Monitoring Pressure Drop:	
Maximum Inlet Temperature (deg F):	105
Minimum Inlet Temperature (deg F):	35
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	DUST COLLECTOR DCX207E
Manufacturer:	YOUNG INDUSTRIES
Model:	VC42-9-32
Number of Bags:	9
Size of Bags (ft2 ):	
Total Bag Area (ft2):	41
Bag Fabric:	POLYESTER FELT
Fabric Weight (oz/ft):	16
Fabric Weave:	NON WOVEN
Fabric Finish:	GLAZED
Maximum Design Temperature Capability (deg F):	275
Maximum Design Air Flow Rate (acfm):	200
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	10
Method of Monitoring Pressure Drop:	DIFFERENTIAL PRESSURE INDICATOR
Maximum Inlet Temperature (deg F):	105
Minimum Inlet Temperature (deg F):	35
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:



### Control Device Design Efficiency Table

[illegible]

Make:	DUST COLLECTOR DCX201E
Manufacturer:	FLEX KLEEN
Model:	84-CT-14
Number of Bags:	15
Size of Bags (ft2 ):	
Total Bag Area (ft2):	113
Bag Fabric:	POLYESTER FELT
Fabric Weight (oz/ft):	16
Fabric Weave:	NON WOVEN
Fabric Finish:	GLAZED
Maximum Design Temperature Capability (deg F):	275
Maximum Design Air Flow Rate (acfm):	290
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	10
Method of Monitoring Pressure Drop:	DIFFERENTIAL PRESSURE INDICATOR
Maximum Inlet Temperature (deg F):	105
Minimum Inlet Temperature (deg F):	35
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	DUST COLLECTOR DCX302A
Manufacturer:	YOUNG INDUSTRIES
Model:	VC 63-24-48
Number of Bags:	24
Size of Bags (ft2 ):	0.45 X 5.25
Total Bag Area (ft2):	164
Bag Fabric:	POLYESTER
Fabric Weight (oz/ft):	16
Fabric Weave:	FELT
Fabric Finish:	EGG SHELL
Maximum Design Temperature Capability (deg F):	275
Maximum Design Air Flow Rate (acfm):	600
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	10
Method of Monitoring Pressure Drop:	PRESSURE DIFFERENTIAL INDICATOR
Maximum Inlet Temperature (deg F):	105
Minimum Inlet Temperature (deg F):	35
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Number of Bags:	<input type="text"/>
Size of Bags (ft2 ):	<input type="text"/>
Total Bag Area (ft2):	<input type="text"/>
Bag Fabric:	<input type="text"/>
Fabric Weight (oz/ft):	<input type="text"/>
Fabric Weave:	<input type="text"/>
Fabric Finish:	<input type="text"/>
Maximum Design Temperature Capability (deg F):	<input type="text"/>
Maximum Design Air Flow Rate (acfm):	<input type="text"/>
Draft Type:	<input type="text"/>
Maximum Air Flow Rate to Cloth Area Ratio:	<input type="text"/>
Minimum Operating Pressure Drop (in. H2O):	<input type="text"/>
Maximum Operating Pressure Drop (in. H2O):	<input type="text"/>
Method of Monitoring Pressure Drop:	<input type="text"/>
Maximum Inlet Temperature (deg F):	<input type="text"/>
Minimum Inlet Temperature (deg F):	<input type="text"/>
Dew Point of Gas Stream (deg F):	<input type="text"/>
Maximum Operating Exhaust Gas Flow Rate (acfm):	<input type="text"/>
Maximum Inlet Gas Stream Moisture Content (%):	<input type="text"/>



Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	SCRUBBER 202
Manufacturer:	Alloy Fab Inc
Model:	
Scrubber Type:	PACKED
Description:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	NO
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	30
Maximum Operating Liquid Flow Rate (gpm):	50
Method of Monitoring Liquid Flow Rate:	LOCAL FLOW INDICATOR
Minimum Operating Gas Flow Rate (acfm):	600
Maximum Operating Gas Flow Rate (acfm):	1000
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	

Maximum Operating Pressure Drop (in. H<sub>2</sub>O):

Method of Monitoring Pressure Drop:

Relative Direction of the Gas-Liquid Flow:

Number of Plates:

Type of Plates:

Spacing Between Plates (in.):

Maximum Inlet Gas Temperature (deg F):

Maximum Outlet Gas Temperature (deg F):

Inlet Particle Grain Loading (gr/dscf):

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

Have you attached a diagram showing the location and/or configuration of this control apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	SCRUBBER 201
Manufacturer:	ALLOY FAB
Model:	KOCH EW6 FLEX 1 PACK TYPE 2 PACK
Scrubber Type:	PACKED
Description:	
Is the Scrubber used for Particulate Control?	YES
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	YES
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	LEVEL CONTROL
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	NONE
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	5
Maximum Operating Liquid Flow Rate (gpm):	10
Method of Monitoring Liquid Flow Rate:	FLOW INDICATOR
Minimum Operating Gas Flow Rate (acfm):	200
Maximum Operating Gas Flow Rate (acfm):	500
Method of Monitoring Gas Flow Rate:	NONE

Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	COUNTERCURRENT
Number of Plates:	
Type of Plates:	
Spacing Between Plates (in.):	
Maximum Inlet Gas Temperature (deg F):	200
Maximum Outlet Gas Temperature (deg F):	85
Inlet Particle Grain Loading (gr/dscf):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	5
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	NO
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	NO
Have you attached a diagram showing the location and/or configuration of this control apparatus?	YES
Comments:	

### Control Device Design Efficiency Table

[illegible]



Make:	DERIVATIVES: DUST COLLECTOR X303J
Manufacturer:	FLEX KLEEN
Model:	
Number of Bags:	24
Size of Bags (ft2 ):	
Total Bag Area (ft2):	240
Bag Fabric:	
Fabric Weight (oz/ft):	
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (deg F):	275
Maximum Design Air Flow Rate (acfm):	250
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	.83:1
Minimum Operating Pressure Drop (in. H2O):	0.5
Maximum Operating Pressure Drop (in. H2O):	10
Method of Monitoring Pressure Drop:	
Maximum Inlet Temperature (deg F):	
Minimum Inlet Temperature (deg F):	
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	DUST COLLECTOR S0306
Manufacturer:	
Model:	
Number of Bags:	27
Size of Bags (ft2 ):	
Total Bag Area (ft2):	283
Bag Fabric:	POLYESTER/GORETEX
Fabric Weight (oz/ft):	
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (deg F):	86
Maximum Design Air Flow Rate (acfm):	1200
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	4.24
Minimum Operating Pressure Drop (in. H2O):	0.5
Maximum Operating Pressure Drop (in. H2O):	25
Method of Monitoring Pressure Drop:	
Maximum Inlet Temperature (deg F):	
Minimum Inlet Temperature (deg F):	
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	DUST COLLECTOR S0307
Manufacturer:	
Model:	
Number of Bags:	69
Size of Bags (ft2 ):	
Total Bag Area (ft2):	856
Bag Fabric:	POLYESTER FELT
Fabric Weight (oz/ft):	
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (deg F):	248
Maximum Design Air Flow Rate (acfm):	5000
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	5.84
Minimum Operating Pressure Drop (in. H2O):	5
Maximum Operating Pressure Drop (in. H2O):	25
Method of Monitoring Pressure Drop:	
Maximum Inlet Temperature (deg F):	
Minimum Inlet Temperature (deg F):	
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	5000
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:

FOR INFORMATIONAL PURPOSES ONLY



### Control Device Design Efficiency Table

[illegible]

Make:	RETENTION CHAMBER T250
Manufacturer:	CASALE INDUSTRIES
Model:	CUSTOM FABRICATION
Scrubber Type:	RETENTION CHAMBER
Description:	
Is the Scrubber used for Particulate Control?	YES
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	NO
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	1
Maximum Operating Liquid Flow Rate (gpm):	20
Method of Monitoring Liquid Flow Rate:	NONE
Minimum Operating Gas Flow Rate (acfm):	600
Maximum Operating Gas Flow Rate (acfm):	20000
Method of Monitoring Gas Flow Rate:	NONE

Minimum Operating  
Pressure Drop (in. H<sub>2</sub>O):

Maximum Operating  
Pressure Drop (in. H<sub>2</sub>O):

Method of Monitoring  
Pressure Drop:

Relative Direction of the  
Gas-Liquid Flow:

Number of Plates:

Type of Plates:

Spacing Between Plates (in.):

Maximum Inlet Gas  
Temperature (deg F):

Maximum Outlet Gas  
Temperature (deg F):

Inlet Particle Grain Loading  
(gr/dscf):

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	RETENTION CHAMBER T230
Manufacturer:	EXPERT INDUSTRIES
Model:	CUSTOM FABRICATION
Scrubber Type:	RETENTION CHAMBER
Description:	
Is the Scrubber used for Particulate Control?	YES
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	NO
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	1
Maximum Operating Liquid Flow Rate (gpm):	20
Method of Monitoring Liquid Flow Rate:	NONE
Minimum Operating Gas Flow Rate (acfm):	600
Maximum Operating Gas Flow Rate (acfm):	20000
Method of Monitoring Gas Flow Rate:	NONE

Minimum Operating Pressure Drop (in. H<sub>2</sub>O):

Maximum Operating Pressure Drop (in. H<sub>2</sub>O):

Method of Monitoring Pressure Drop:

Relative Direction of the Gas-Liquid Flow:

Number of Plates:

Type of Plates:

Spacing Between Plates (in.):

Maximum Inlet Gas Temperature (deg F):

Maximum Outlet Gas Temperature (deg F):

Inlet Particle Grain Loading (gr/dscf):

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

Have you attached a diagram showing the location and/or configuration of this control apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

Make:	SCRUBBER T205
Manufacturer:	ROCKAWAY TANK
Model:	STYLE 431
Scrubber Type:	SPRAY
Description:	
Is the Scrubber used for Particulate Control?	YES
Is the Scrubber used for Gas Control?	NO
Is the Scrubber Equipped with a Mist Eliminator?	YES
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	4
Maximum Operating Liquid Flow Rate (gpm):	40
Method of Monitoring Liquid Flow Rate:	NONE
Minimum Operating Gas Flow Rate (acfm):	300
Maximum Operating Gas Flow Rate (acfm):	1200
Method of Monitoring Gas Flow Rate:	NONE
Minimum Operating Pressure Drop (in. H2O):	



Maximum Operating Pressure Drop (in. H<sub>2</sub>O):

Method of Monitoring Pressure Drop:

Relative Direction of the Gas-Liquid Flow:

Number of Plates:

Type of Plates:

Spacing Between Plates (in.):

Maximum Inlet Gas Temperature (deg F):

Maximum Outlet Gas Temperature (deg F):

Inlet Particle Grain Loading (gr/dscf):

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

Have you attached a diagram showing the location and/or configuration of this control apparatus?

Comments:

### Control Device Design Efficiency Table

[illegible]

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD240013 (Scrubber (Packed Tower))**  
**Print Date: 4/26/2022**

Make:	WET SCRUBBER 6740
Manufacturer:	CASALE INDUSTRIES, INC
Model:	NA
Is the Scrubber Used for Particulate Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	15.00
Maximum Operating Liquid Flow Rate (gpm):	35.00
Method of Monitoring Liquid Flow Rate:	FLOW METER WITH INDICATOR
Minimum Operating Gas Flow Rate (acfm):	1,000.00
Maximum Operating Gas Flow Rate (acfm):	4,700.00
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	Counter-Current ▼
Description:	
Height of Packed Section (ft):	10
Type of Packing Material:	JAEGER TRIPACK OR EQUIVALENT
Size of Packing Material (in):	3.5
Tower Diameter (ft):	2.00
Total Tower Height (ft):	19.30
Maximum Operating Temperature of the Inlet Gas (°F):	100.0
Maximum Operating Temperature of the Exhaust Gas(°F):	86.0
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	MONTHLY TVA READING SIMILIAR TO U214601 OS SUMMARY REF 5.
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No

Have you attached any  
manufacturer's data or specifications  
in support of the feasibility and/or  
effectiveness of this control  
apparatus?

☐ Yes ☒ No

Comments:

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD240014 (Scrubber (Other))  
Print Date: 4/26/2022

Make:	SCRUBBER C601
Manufacturer:	ROCKAWAY TANK
Model:	STYLE 431
Scrubber Type:	ST
Description:	
Is the Scrubber Used for Particulate Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Used for Gas Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	4.00
Maximum Operating Liquid Flow Rate (gpm):	40.00
Method of Monitoring Liquid Flow Rate:	ROTOMETER
Minimum Operating Gas Flow Rate (acfm):	300.00
Maximum Operating Gas Flow Rate (acfm):	1,200.00
Method of Monitoring Gas Flow Rate:	NONE
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Number of Plates:	
Type of Plates:	
Spacing between Plates (in.):	
Maximum Inlet Gas Temperature (°F):	
Maximum Outlet Gas Temperature (°F):	
Inlet Particle Grain Loading (gr/dscf):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	2
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD240014 (Scrubber (Other))

Print Date: 4/26/2022

☐ Yes ☒ No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

☒ Yes ☐ No

Comments:

Make:	
Manufacturer:	WHEELABRATOR
Model:	120
Number of Bags:	240
Size of Bags (ft2 ):	16.3
Total Bag Area (ft2):	3912
Bag Fabric:	
Fabric Weight (oz/ft):	16
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (deg F):	275
Maximum Design Air Flow Rate (acfm):	35000
Draft Type:	INDUCED
Maximum Air Flow Rate to Cloth Area Ratio:	8.9
Minimum Operating Pressure Drop (in. H2O):	0.5
Maximum Operating Pressure Drop (in. H2O):	12
Method of Monitoring Pressure Drop:	PRESSURE DIFFERENTIAL INDICATOR
Maximum Inlet Temperature (deg F):	105
Minimum Inlet Temperature (deg F):	35
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	20300
Maximum Inlet Gas Stream Moisture Content (%):	2

Method for Determining  
When Bag Replacement is  
Required:

Method for Determining  
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted  
On-Line?

Maximum Number of  
Sources Using this  
Apparatus as a Control  
Device (Include Permitted  
and Non-permitted Sources):

Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:

Have you attached a Particle  
Size Distribution Analysis?

Have you attached data from  
recent performance testing?

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

Comments:



### Control Device Design Efficiency Table

[illegible]

Make:	OPTIMA: CYCLONE S136
Manufacturer:	CHICAGO SERVICE CORPORATION
Model:	#CHE2500
Unit Type:	
Description:	12 GUAGE, 304 SST
Major Cylinder Diameter, Dc (ft):	8.2
Major Cylinder Length, Lc (ft):	30.875
Gas Outlet Diameter, De (ft):	2.33
Gas Inlet Height, He (ft):	2.46
Gas Inlet Width, Bc (ft):	1.6
Gas Outlet Length, Hc + Sc [usually 5/8 Dc] (ft):	5.13
Cone Length, Zc (ft):	20.12
Dust Outlet, Jc (ft):	1.14
Effective Number of Turns, Ne:	8.5
Inlet Gas Velocity, Vi (ft/min):	15800
True Particle Density (lbs/ft3):	
Average Particle Size (Micrometers):	APPROX 10-12
Gas Temperature (deg F):	70
Have You Attached a Particle Size Distribution Analysis?	NO
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	1

**Alternative Method to  
Demonstrate Control  
Apparatus is Operating  
Properly:**

PRESSURE DROP ACROSS CYCLONE  
AND OVERALL SYSTEM PRESSURE

**Have you attached data from  
recent performance testing?**

NO

**Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?**

NO

**Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?**

YES

**Comments:**

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### Control Device Design Efficiency Table

[illegible]

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD262003 (Particulate Filter (Cartridge))**  
**Print Date: 4/26/2022**

Make:	DUST COLLECTOR S138
Manufacturer:	
Model:	RF69/4
Number of Cartridges:	69
Size of Cartridges (ft²):	107.60
Total Cartridge Area (ft²):	7,424.00
Maximum Design Temperature Capability (°F):	250.0
Maximum Design Air Flow Rate (acfm):	26,050.0
Maximum Air Flow Rate to Filter Area Ratio:	3.51
Minimum Operating Pressure Drop (in. H2O):	0.50
Maximum Operating Pressure Drop (in. H2O):	10.00
Maximum Inlet Temperature (°F):	86.0
Maximum Operating Exhaust Gas Flow Rate (acfm):	26,050.0

Method for Determining When Cartridge Replacement is Required:	DIFFERENTIAL PRESSURE IN THE CLOSED, NONVENTING SYSTEM
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Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis?

<input type="radio"/> Yes	<input checked="" type="radio"/> No
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Have you attached data from recent performance testing?

<input type="radio"/> Yes	<input checked="" type="radio"/> No
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Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

<input type="radio"/> Yes	<input checked="" type="radio"/> No
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Have you attached a diagram showing the location and/or configuration of this control apparatus?

<input type="radio"/> Yes	<input checked="" type="radio"/> No
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Comments:

**85452 DSM NUTRITIONAL PRODUCTS LLC BOP180001 CD262004 (Particulate Filter (Cartridge))****Print Date: 4/26/2022**

Make:	DURA PLEAT
Manufacturer:	CAMFIL/FARR
Model:	DPA-225
Number of Cartridges:	6
Size of Cartridges (ft²):	225.00
Total Cartridge Area (ft²):	1,350.00
Maximum Design Temperature Capability (°F):	200.0
Maximum Design Air Flow Rate (acfm):	1,600.0
Maximum Air Flow Rate to Filter Area Ratio:	1.19
Minimum Operating Pressure Drop (in. H2O):	0.05
Maximum Operating Pressure Drop (in. H2O):	12.00
Maximum Inlet Temperature (°F):	110.0
Maximum Operating Exhaust Gas Flow Rate (acfm):	1,600.0

Method for Determining When Cartridge Replacement is Required:

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis?

☐ Yes ☒ No

Have you attached data from recent performance testing?

☐ Yes ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

☒ Yes ☐ No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

☐ Yes ☒ No

Comments:

Make:	B264 WET SCRUBBER X404
Manufacturer:	AMERICAN AIR FILTER
Model:	MODEL B, SIZE 1+1/2, ARRGMT D: TYPE N ROTOCLONE
Scrubber Type:	SPRAY TOWER
Description:	
Is the Scrubber used for Particulate Control?	YES
Is the Scrubber used for Gas Control?	NO
Is the Scrubber Equipped with a Mist Eliminator?	YES
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	1
Maximum Operating Liquid Flow Rate (gpm):	5
Method of Monitoring Liquid Flow Rate:	FLOW RATE MONITOR
Minimum Operating Gas Flow Rate (acfm):	13.5
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	14.9

Maximum Operating Pressure Drop (in. H<sub>2</sub>O): 15.1

Method of Monitoring Pressure Drop:

Relative Direction of the Gas-Liquid Flow: COUNTER CURRENT

Number of Plates:

Type of Plates:

Spacing Between Plates (in.):

Maximum Inlet Gas Temperature (deg F):

Maximum Outlet Gas Temperature (deg F):

Inlet Particle Grain Loading (gr/dscf):

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources): 2

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing? NO

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? NO

Have you attached a diagram showing the location and/or configuration of this control apparatus? YES

Comments:



### Control Device Design Efficiency Table

[illegible]

Make:	
Manufacturer:	Hosokawa/Micropul
Model:	CFH-42-V
Number of Cartridges:	42
Size of Cartridges (ft2):	12.75" O.D. x 26" Length
Total Cartridge Area (ft2):	1512
Maximum Design Temperature Capability (deg F):	250
Maximum Design Air Flow Rate (acfm):	7600
Maximum Air Flow Rate to Filter Area Ratio:	5 to 1
Minimum Operating Pressure Drop (in. H2O):	0.2
Maximum Operating Pressure Drop (in. H2O):	10
Maximum Inlet Temperature (deg F):	ambient
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Method for Determining When Cartridge Replacement is Required:	Magnehelic Pressure Gauge
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	17
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	no
Have you attached data from recent performance testing?	no

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

no
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Have you attached a diagram showing the location and/or configuration of this control apparatus?

yes
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Comments:

B265 DC-X570
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### Control Device Design Efficiency Table

[illegible]

Make:	B265 DC-S402
Manufacturer:	EIRICH
Model:	RDC200
Number of Cartridges:	2
Size of Cartridges (ft2):	1.08'D x 2.16'L
Total Cartridge Area (ft2):	90
Maximum Design Temperature Capability (deg F):	150
Maximum Design Air Flow Rate (acfm):	1200
Maximum Air Flow Rate to Filter Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	6.5
Maximum Inlet Temperature (deg F):	105
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Method for Determining When Cartridge Replacement is Required:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	NO
Have you attached data from recent performance testing?	NO

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

NO
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Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

YES
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Comments:

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### Control Device Design Efficiency Table

[illegible]

Make:	B265 DC-S402
Manufacturer:	EIRICH
Model:	RDC200
Number of Cartridges:	2
Size of Cartridges (ft2):	1.08'D x 2.16'L
Total Cartridge Area (ft2):	90
Maximum Design Temperature Capability (deg F):	150
Maximum Design Air Flow Rate (acfm):	1200
Maximum Air Flow Rate to Filter Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	6.5
Maximum Inlet Temperature (deg F):	105
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Method for Determining When Cartridge Replacement is Required:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	NO
Have you attached data from recent performance testing?	NO



Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

NO
----

Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

YES
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Comments:

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### Control Device Design Efficiency Table

[illegible]

Make:	B265 DC-S404
Manufacturer:	EIRICH
Model:	RDC200
Number of Cartridges:	2
Size of Cartridges (ft2):	1.08'D x 2.16'L
Total Cartridge Area (ft2):	45
Maximum Design Temperature Capability (deg F):	150
Maximum Design Air Flow Rate (acfm):	900
Maximum Air Flow Rate to Filter Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	6.5
Maximum Inlet Temperature (deg F):	105
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Method for Determining When Cartridge Replacement is Required:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	NO
Have you attached data from recent performance testing?	NO

Have you attached any  
manufacturer's data or  
specifications in support of  
the feasibility and/or  
effectiveness of this control  
apparatus?

NO
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Have you attached a diagram  
showing the location and/or  
configuration of this control  
apparatus?

YES
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Comments:

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### Control Device Design Efficiency Table

[illegible]

New Jersey Department of Environmental Protection  
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT20002	7	DISTRIBUTION CENTER: STACK FOR VACUUM SYSTEM 2	Square	8	20	600	70.0	35.0	105.0	1,000.0	500.0	1,500.0	Down	
PT20003	EMERG. GEN	EMERGENCY GENERATOR	Round	8	15	900	975.0	487.0	1,463.0	8,405.0	4,202.0	12,607.5	Horizontal	
PT202001	COGEN	COGEN	Round	40	160	1,000	340.0	280.0	410.0	60,000.0	40,000.0	80,000.0	Up	
PT202003	BOILER NO 2	BLDG 202, BOILER NO 2	Round	66	55	800	480.0	240.0	720.0	82,800.0	41,400.0	124,200.0	Up	
PT202005	BOILER NO 4	BLDG 202, BOILER NO. 4	Round	77	55	800	400.0	200.0	600.0	69,300.0	34,650.0	103,950.0	Up	
PT202006	Sullair Unit	Emergency Compressor	Round	8	45	750	380.0	300.0	460.0	8,000.0	4,000.0	12,000.0	Horizontal	
PT202007	Em. Gen	Emergency Generator	Round	8	42	750	380.0	300.0	460.0	18,000.0	4,000.0	22,000.0	Up	
PT202012	TMP BLR; NG	BLDG 202; TEMP BOILER	Round	40	32	800	455.0	455.0	455.0	31,206.0	31,206.0	31,206.0	Up	
PT209001	13	SPRAY DRY/CHILL: 209 SPRAY DRYER	Round	5	30	1,100	100.0	100.0	100.0	10,800.0	5,400.0	16,200.0	Up	
PT209002	R601/602	SPRAY DRY/CHILL: VENT FOR MIX VESSELS R-601/602	Square	90	45	1,100	65.0	40.0	110.0	10,500.0	5,400.0	16,200.0	Down	
PT209003	213	PREMIX: DUST COLLECTOR:DCR-23006 B2-212	Round	12	15	1,100	70.0	35.0	105.0	1,000.0	500.0	1,500.0	Down	
PT209004	ROOM EXHAUST	PREMIX: HVAC ROOM EXHAUST	Square	72	10	1,100	70.0	60.0	80.0	4,500.0	2,000.0	7,000.0	Horizontal	
PT209005	X105A	DUST COLLECTOR VENT X105A	Round	12	15	1,100	70.0	35.0	105.0	3,000.0	1,000.0	4,800.0	Horizontal	
PT209006	ROOM	BLENDS: VENT FOR PACKAGING HOPPER 209X0200	Rectangle	65	30	1,100	70.0	35.0	105.0	3.5	0.0	17.0	Up	

BOP180001

**New Jersey Department of Environmental Protection  
Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT209007	GEN990001	BLENDS: BIN VENT FILTER 209S0102	Rectangle	10	90	1,100	70.0	35.0	105.0	460.0	5.0	600.0	Horizontal	
PT209008	GEN990002	BLENDS:BIN VENT FILTER 209S0103	Rectangle	5	45	1,100	70.0	35.0	105.0	8.5	2.0	15.0	Horizontal	
PT209010	HOFFMAN HV	BLDG 209 HOFFMAN HOUSE VACUUM SYSTEM	Round	6	5	1,100	70.0	35.0	105.0	720.0	360.0	1,080.0	Horizontal	
PT209011	PUMP B602A	VACUUM PUMP	Round	2	20	1,100	70.0	50.0	120.0	212.0	0.0	290.0	Horizontal	
PT209012	BLOWER 603A	DUST COLLECTOR	Round	10	12	1,100	70.0	50.0	120.0	2,000.0	0.0	5,000.0	Up	
PT210001	FIRE PUMP 28	BLDG 210, FIRE PUMP DRIVER #28	Round	5	14	600	380.0	300.0	460.0	8,000.0	4,000.0	12,000.0	Horizontal	
PT212001	188	WASTEWATER TREATMENT PLANT: PRE-CLARIFIER TANK	Round	12	1	400	105.0	52.0	157.0	100.0	50.0	150.0	Up	
PT212002	RETENT POND	WASTEWATER TREATMENT PLANT: RETENTION POND (EMERGENCY USE ONLY)	Round	999	0	300	90.0	50.0	160.0	100.0	50.0	150.0	Up	
PT212003	AER TNK 3-6	WASTEWATER TREATMENT PLANT: FIRST STAGE AERATION TANKS 3 THRU 6	Rectangle	999	0	500	90.0	50.0	160.0	3,100.0	2,400.0	4,000.0	Up	
PT212004	FNL CLAR 1	WASTEWATER TREATMENT PLANT: FIRST STAGE FINAL CLARIFIER 1	Round	999	0	350	90.0	50.0	160.0	100.0	50.0	150.0	Up	
PT212005	FNL CLAR 2	WASTEWATER TREATMENT PLANT: FIRST STAGE FINAL CLARIFIER 2	Round	999	0	450	90.0	50.0	160.0	100.0	50.0	150.0	Up	

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**New Jersey Department of Environmental Protection  
Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT212006	DIGEST T1	WASTEWATER TREATMENT PLANT: AEROBIC DIGESTER TANK 1	Rectangle	938	0	400	90.0	60.0	110.0	4,500.0	2,400.0	6,000.0	Up	
PT212007	DIGEST T2	WASTEWATER TREATMENT PLANT: AEROBIC DIGESTER TANK 2	Rectangle	938	0	400	90.0	60.0	110.0	4,500.0	2,400.0	6,000.0	Up	
PT212008	DEWATER PRES	WASTEWATER TREATMENT PLANT: DEWATERING PRESSES	Rectangle	124	42	220	90.0	60.0	110.0	2,500.0	100.0	10,000.0	Up	
PT212009	AER TNK 7	WASTEWATER TREATMENT PLANT: SECOND STAGE AERATION TANK 7	Rectangle	938	0	500	90.0	50.0	160.0	1,200.0	800.0	2,000.0	Up	
PT212010	AER TNK 8	WASTEWATER TREATMENT PLANT: SECOND STAGE AERATION TANK 8	Rectangle	938	0	500	90.0	50.0	160.0	1,200.0	800.0	2,000.0	Up	
PT212011	STG2 FNL CLA	WASTEWATER TREATMENT PLANT: SECOND STAGE FINAL CLARIFIER	Round	999	0	600	90.0	50.0	160.0	100.0	50.0	150.0	Up	
PT212012	POLISH POND1	WASTEWATER TREATMENT PLANT: WASTEWATER TREATMENT PLANT:	Rectangle	999	0	200	90.0	50.0	160.0	100.0	50.0	150.0	Up	
PT212013	POLISH POND2	WASTEWATER TREATMENT PLANT: POLISHING POND 1	Rectangle	999	0	200	90.0	50.0	160.0	100.0	50.0	150.0	Up	



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PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT212014	CONTACT TNK	WASTEWATER TREATMENT PLANT: SECOND STAGE CONTACT TANK	Rectangle	430	0	150	90.0	50.0	160.0	100.0	50.0	150.0	Up	
PT212015	POLISH FILTR	WASTEWATER TREATMENT PLANT: POLISHING FILTERS	Round	528	0	150	90.0	50.0	160.0	100.0	50.0	150.0	Up	
PT214501	STACK 231	E5789	Round	4	384	884	60.0	53.0	90.0	0.1	0.0	5.0	Down	
PT214505	TANKER	STEP 5: TANKER	Round	4	12	925	100.0	30.0	170.0	10.0	0.0	20.0	Up	
PT218004	103	TANK FARM: STORAGE TANK T-9886	Round	4	26	610	70.0	35.0	105.0	21.0	10.5	31.5	Down	
PT218005	104	TANK FARM: STORAGE TANK T-9887	Round	4	26	600	70.0	35.0	105.0	21.0	10.5	31.5	Down	
PT218010	109	TANK FARM: STORAGE TANK T-9917	Round	3	25	450	70.0	35.0	105.0	96.0	48.0	144.0	Down	
PT218011	195	TANK FARM: STORAGE TANK T-953	Round	3	25	450	70.0	35.0	105.0	96.0	48.0	144.0	Down	
PT222001	121	DERIVATIVES: 222 DC 103E	Round	14	70	700	185.0	92.5	277.5	12,000.0	6,000.0	18,000.0	Down	
PT222002	123	DERIVATIVES: 222 DC 108H	Round	6	70	700	70.0	35.0	105.0	440.0	220.0	660.0	Down	
PT222003	237	DERIVATIVES: 222-DCS104	Round	8	112	700	70.0	35.0	105.0	730.0	365.0	1,095.0	Horizontal	
PT222004	238	DERIVATIVES: 222-S01 & S107	Round	4	105	700	100.0	50.0	150.0	260.0	130.0	390.0	Horizontal	
PT222005	120	DERIVATIVES: 222 DC 108E	Round	10	15	700	70.0	35.0	105.0	1,300.0	650.0	1,950.0	Down	
PT222006	240	DERIVATIVES: 222 DCX104F	Round	12	70	700	170.0	85.0	255.0	1,500.0	750.0	2,250.0	Horizontal	

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PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT222007	S114	DERIVATIVES: 222 DCS114	Round	8	40	700	70.0	35.0	105.0	1,000.0	500.0	1,500.0	Horizontal	
PT222008	124	DERIVATIVES: 222 DCX208A	Round	8	70	700	70.0	35.0	105.0	600.0	300.0	900.0	Horizontal	
PT222010	125	DERIVATIVES: 222 DC202A	Round	6	15	700	70.0	35.0	105.0	1,213.0	606.5	1,819.5	Down	
PT222011	126	DERIVATIVES: 222 DCX207E	Round	3	70	700	70.0	35.0	105.0	200.0	100.0	300.0	Down	
PT222012	130	DERIVATIVES: 222 DCX201E	Round	4	70	700	70.0	35.0	105.0	290.0	145.0	435.0	Down	
PT222013	127	DERIVATIVES: 222 DCX302A	Round	8	70	700	70.0	35.0	105.0	600.0	300.0	900.0	Down	
PT222014	131	DERIVATIVES: SCRUBBER C201	Round	5	82	510	60.0	30.0	90.0	350.0	300.0	600.0	Horizontal	
PT222015	128	DERIVATIVES: 222 DCX303J	Rectangle	3	25	700	70.0	35.0	105.0	250.0	125.0	500.0	Down	
PT222016	S0306	DERIVATIVES: 222 DCS0306	Round	10	75	700	80.0	70.0	120.0	700.0	400.0	1,200.0	Down	
PT222017	S0307	DERIVATIVES: 222DCS0307	Round	12	75	700	80.0	70.0	120.0	3,000.0	1,200.0	5,000.0	Down	
PT228001	FIRE PUMP 32	BLDG 228, FIRE PUMP DRIVER #32	Round	5	12	373	380.0	300.0	460.0	8,000.0	4,000.0	12,000.0	Horizontal	
PT228002	FIRE PUMP 33	BLDG 228, FIRE PUMP DRIVER #33	Round	5	12	350	380.0	300.0	460.0	8,000.0	4,000.0	12,000.0	Horizontal	
PT240007	STACK 164	BLDG 240: BEER WELL R300A VENTING THROUGH STACK 164	Round	4	35	700	70.0	35.0	105.0	67.0	0.0	140.0		
PT240012	STACK 224	BLDG 240: STORAGE TANK T335 VENTING THROUGH STACK 224	Round	2	25	700	70.0	35.0	115.0	3.0	0.0	0.4	Down	
PT240014	ROTOCLONE	MEDIA MIX TANKS	Round	20	75	550	85.0	40.0	212.0	5,300.0	4,000.0	6,000.0	Horizontal	

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PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT240015	R281	BLDG 240: R281 INOCULUM TANK BYPASS VENT	Round	4	100	550	150.0	40.0	260.0	110.0	0.0	150.0	Down	
PT240016	R284	BLDG 240: R284 INOCULUM TANK BYPASS VENT	Round	4	100	550	150.0	40.0	260.0	110.0	0.0	150.0	Down	
PT240017	R279	BLDG 240: R279 FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240018	R280	BLDG 240: R280 FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240019	R282	BLDG 240: R282 FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240020	R283	BLDG 240: R283 FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240021	R270	BLDG 240: R270 INOCULUM TANK BYPASS VENT	Round	4	100	550	150.0	40.0	260.0	110.0	0.0	150.0	Down	
PT240022	R275	INOCULUM TANK BYPASS VENT	Round	4	100	550	150.0	40.0	260.0	110.0	0.0	150.0	Down	
PT240023	R278	BLDG 240: R278 INOCULUM TANK BYPASS VENT	Round	4	100	550	150.0	40.0	260.0	110.0	0.0	150.0	Down	
PT240024	R260	BLDG 240: R260 FERMENTOR / TANK BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	

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PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT240025	R261	BLDG 240: R261 FERMENTOR / TANK BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240026	R273	BLDG 240: R273 FERMENTOR / TANK BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240027	R274	BLDG 240: R274 FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240028	R276	BLDG 240: R276 FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240029	R277	BLDG 240: R277 FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240030	R218A	BLDG 240: R218A INOCULUM TANK BYPASS VENT	Round	4	100	550	150.0	40.0	260.0	110.0	0.0	150.0	Down	
PT240031	R218B	BLDG 240: R218B INOCULUM TANK BYPASS VENT	Round	4	100	550	150.0	40.0	260.0	110.0	0.0	150.0	Down	
PT240032	R218C	BLDG 240: R218C INOCULUM TANK BYPASS VENT	Round	4	100	550	150.0	40.0	260.0	110.0	0.0	150.0	Down	
PT240033	R220B	BLDG 240: R220B FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240034	R220C	BLDG 240: R220C FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	

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PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT240035	R220E	BLDG 240: R220E FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240036	R220F	BLDG 240: R220F FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240037	R220A	BLDG 240: R220A FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240038	R220D	BLDG 240: R220D FERMENTOR BYPASS VENT	Round	6	115	550	150.0	40.0	260.0	2,700.0	0.0	4,700.0	Down	
PT240039	C0274	SCRUBBER VENT	Round	12	67	550	68.0	50.0	86.0	1,800.0	1,000.0	4,700.0	Down	
PT240040	S0274	CENTRIFUGE	Door	66	5	600	68.0	55.0	90.0	250.0	0.0	500.0	Horizontal	
PT241001	Room Exhaust	DSP Room Exhaust	Door	108	10	600	70.0	50.0	90.0	300.0	200.0	400.0	Up	
PT241002	B-735	ARA Downstream Process Dryer Exhaust (Bldg 241)	Rectangle	63	49	650	86.0	59.0	122.0	62,500.0	31,250.0	75,000.0	Up	
PT242001	S0505	BLDG 242: DUST COLLECTOR S0505	Round	36	45	800	70.0	35.0	150.0	20,250.0	10,000.0	35,000.0	Horizontal	
PT242002	SCREW CONV	BLDG 242: SCREW CONVEYOR VENT	Door	108	8	750	70.0	50.0	90.0	300.0	200.0	400.0	Horizontal	
PT253001	Generator	Emerg. Gen. E253001 Stack	Round	4	10	700			474.0			1,022.0	Up	
PT262001	218	OPTIMA: DUST COLLECTOR S138, STACK 218	Round	35	30	650	80.0	50.0	158.0	26,000.0	13,000.0	39,000.0	Horizontal	
PT262002	S190	OPTIMA DUST COLLECTOR S190	Round	7	8	650	80.0	40.0	120.0	1,600.0	0.0	2,000.0	Up	

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PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT264001	236	LPF PROCESS VENT HEADER	Round	4	45	650	87.5	43.0	131.3	100.0	50.0	150.0	Down	
PT265001	1973333	CPU: B265 DC-X570	Round	20	100	1,100	70.0	65.0	75.0	7,000.0	0.0	7,600.0	Horizontal	
PT265002	1973336	CPU: B265 DC-S402	Round	8	55	1,100	70.0	35.0	105.0	1,000.0	500.0	1,500.0	Down	
PT265003	1973335	CPU: B265 DC-S401	Round	8	55	1,100	70.0	35.0	105.0	1,000.0	500.0	1,500.0	Down	
PT265004	1973337	CPU: B265 DC-S404	Round	8	55	1,100	70.0	35.0	105.0	880.0	440.0	1,320.0	Down	

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**New Jersey Department of Environmental Protection**  
**Emission Unit/Batch Process Inventory**

**U 200 BLDG 200 DISTRUBUTION CENTER with an Emergency Generator**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	VACUUM SYS 2	DISTRIBUTION CENTER: DUST FROM VITAMIN PACKAGING ROOM 140	Normal - Steady State	E200002		PT20002		0.0	8,760.0		500.0	1,500.0	35.0	105.0
OS3	EMERG GENERA	EMERGENCY GENERATOR BURNING #2 FUEL OIL	Normal - Steady State	E20003		PT20003		0.0	225.0					

**U 202 BLDG 202 BOILER / UTILITY OPERATIONS**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS5	BLR # 2; NG	BLDG 202-BOILER NO 2 (127 MMBTU/hr), NG	Normal - Steady State	E202004		PT202003		0.0	8,760.0		41,400.0	124,200.0	225.0	675.0
OS9	BLR # 4; NG	BLDG 202-BOILER NO 4 (102 MMBTU/hr), NG	Normal - Steady State	E202006		PT202005		0.0	8,760.0		34,650.0	103,950.0	200.0	600.0
OS13	Sullair Unit	Emergency Air Compressor (Diesel)	Normal - Steady State	E202007		PT202006		0.0	500.0		0.0	12,000.0	0.0	460.0
OS14	Em Generator	Emergency Generator (1.8 MMBTu/hr, 150 KW), NG	Normal - Steady State	E202008		PT202007		0.0	99.0		0.0	1,548.0	0.0	1,166.0
OS15	TURBINE-CM	BLDG 202 - TURBINE OPERATING IN COGEN MODE (99.5 MMBTU/hr), NG	Normal - Steady State	E202009	CD202001 (P) CD202002 (P)	PT202001		0.0	8,760.0		40,000.0	80,000.0	340.0	410.0

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**U 202 BLDG 202 BOILER / UTILITY OPERATIONS**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS16	DB-CM	BLDG 202 - DUCT BURNER OPERATING IN COGEN MODE (96.2 MMBTU/hr), NG	Normal - Steady State	E202010	CD202001 (P) CD202002 (P)	PT202001		0.0	8,760.0		40,000.0	80,000.0	340.0	410.0
OS17	TMP BLR: NG	BLDG 202 - TEMPORARY BOILER (94.7 MMBTU/HR)	Normal - Steady State	E202012		PT202012		0.0	8,760.0		31,206.0	31,206.0	455.0	455.0

**U 209 BLDG 209 DRY POWDERS**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS209001	D-701	SPRY DRY/ CHILL: SPRAY DRYER D-701& PRODUCT COLLECTION CYCLONE S-705 & S-706	Normal - Steady State	E209001	CD209001 (P) CD209002 (P)	PT209001		0.0	8,760.0		5,400.0	16,200.0	50.0	150.0
OS209002	R-601	SPRY DRY/ CHILL: MIX VESSEL R-601	Normal - Steady State	E209002		PT209002		0.0	8,760.0		2.0	40.0	65.0	176.0
OS209003	R-602	SPRY DRY/ CHILL: MIX VESSEL R-602	Normal - Steady State	E209003		PT209002		0.0	8,760.0		2.0	4.0	65.0	176.0
OS209004	M-401	PREMIX: SMALL NAUTA M-401	Normal - Steady State	E209004	CD209003 (P)	PT209003		0.0	4,550.0		500.0	1,500.0	35.0	105.0



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**U 209 BLDG 209 DRY POWDERS**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS209005	M-506	PREMIX: LARGE NAUTA M-506	Normal - Steady State	E209005	CD209003 (P)	PT209003		0.0	4,550.0		500.0	1,500.0	35.0	105.0
OS209006	PACKAGING 1	PREMIX: PACKAGING 1	Normal - Steady State	E209006	CD209003 (P)	PT209003		0.0	4,550.0		500.0	1,500.0	35.0	105.0
OS209007	PACKAGING 2	PREMIX: PACKAGING 2	Normal - Steady State	E209007	CD209003 (P)	PT209003		0.0	4,550.0		500.0	1,500.0	35.0	105.0
OS209008	M-401	PREMIX: SMALL NAUTA M-401 VENTING TO ROOM	Normal - Steady State	E209004		PT209004		0.0	8,760.0		1.0	10.0	60.0	105.0
OS209009	M-506	PREMIX: LARGE NAUTA M-506 VENTING TO ROOM	Normal - Steady State	E209005		PT209004		0.0	8,760.0		1.0	10.0	60.0	105.0
OS209010	T-107	BLENDS: DUMP STATION T-107 VENTING TO DUST COLLECTOR X105	Normal - Steady State	E209008	CD209004 (P)	PT209005		0.0	8,280.0		587.5	1,762.5	35.0	105.0
OS209011	T-107	BLENDS: DUMP STATION T-107 VENTING TO DUST COLLECTOR BIN VENT FILTER 209SO103	Normal - Steady State	E209008	CD209006 (P)	PT209008		0.0	8,280.0		587.5	1,762.5	35.0	105.0
OS209012	209X0200	BLENDS: PACKAGING SYSTEM 209X0200 VENTING TO DUST COLLECTOR X105	Normal - Steady State	E209009				0.0	8,280.0		587.5	1,762.5	35.0	105.0
OS209013	209X0200	BLENDS: PACKAGING SYSTEM 209X0200 VENTING TO ROOM	Normal - Steady State	E209009				0.0	8,280.0		587.5	1,762.5	35.0	105.0
OS209014	209T0101	BLENDS: BULK STORAGE SILO 209T0101	Normal - Steady State	E209010	CD209005 (P)	PT209007		0.0	8,760.0		5.0	600.0	35.0	105.0
OS209015	209T0103	BLENDS: SURGE HOPPER 209T0103	Normal - Steady State	E209011	CD209006 (P)	PT209008		0.0	8,760.0		2.0	15.0	35.0	105.0

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**U 209 BLDG 209 DRY POWDERS**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS209016	T-120	BLENDS: HOPPER T-120	Normal - Steady State	E209012		PT209004		0.0	8,760.0		2.0	40.0	60.0	105.0
OS209017	X83	TRITS/UNIFORMITY BLENDING: BLENDER X83	Normal - Steady State	E209013		PT209004		0.0	8,760.0		1.0	10.0	60.0	105.0
OS209018	X83	TRITS/UNIFORMITY BLENDING: BLENDER X83	Normal - Steady State	E209013	CD209007 (P)	PT209010		0.0	8,760.0		1.0	10.0	60.0	105.0
OS209019	HOFFMAN	HOFFMAN HOUSE VACUUM SYSTEM	Normal - Steady State	E209014	CD209007 (P)	PT209010		0.0	8,760.0		360.0	1,080.0	35.0	105.0
OS209020	R601	Material Transfer	Normal - Steady State	E209002	CD209010 (P) CD209011 (S)	PT209011		0.0	8,760.0		0.0	290.0	50.0	120.0
OS209021	R602	Material Transfer	Normal - Steady State	E209003	CD209009 (P) CD209011 (S)	PT209011		0.0	8,760.0		0.0	290.0	50.0	120.0
OS209022	BAG DUMP	Material Transfer	Normal - Steady State	E209015	CD209012 (P)	PT209012		0.0	8,760.0		0.0	5,200.0	50.0	120.0
OS209023	MATERIAL TRN	Material Transfer	Normal - Steady State	E209016	CD209012 (P)	PT209012		0.0	8,760.0		0.0	5,200.0	50.0	120.0
OS209024	PACKAGING	Material Transfer	Normal - Steady State	E209017	CD209012 (P)	PT209012		0.0	8,760.0		0.0	5,200.0	50.0	120.0

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**U 212 BLDG 212 WASTEWATER TREATMENT PLANT**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS212001	PRECLAR	WASTEWATER TREATMENT PLANT: PRE-CLARIFIER TANK	Normal - Steady State	E212001		PT212001		0.0	8,760.0		50.0	150.0	52.0	130.0
OS212002	RETENT POND	WASTEWATER TREATMENT PLANT: RETENTION POND (EMERGENCY USE ONLY)	Normal - Steady State	E212002		PT212002		0.0	8,760.0				50.0	160.0
OS212003	AER TNK 3-6	WASTEWATER TREATMENT PLANT: FIRST STAGE AERATION TANKS 3 THRU 6	Normal - Steady State	E212003		PT212003		0.0	8,760.0				50.0	160.0
OS212004	FNL CLAR 1	WASTEWATER TREATMENT PLANT: FIRST STAGE FINAL CLARIFIER 1	Normal - Steady State	E212004		PT212004		0.0	8,760.0				50.0	160.0
OS212005	FNL CLAR 2	WASTEWATER TREATMENT PLANT: FIRST STAGE FINAL CLARIFIER 2	Normal - Steady State	E212005		PT212005		0.0	8,760.0				50.0	160.0
OS212006	AEROBIC T1	WASTEWATER TREATMENT PLANT: AEROBIC DIGESTER TANK 1	Normal - Steady State	E212006		PT212006		0.0	8,760.0		4,000.0	6,000.0	60.0	110.0
OS212007	AEROBIC T2	WASTEWATER TREATMENT PLANT: AEROBIC DIGESTER TANK 2	Normal - Steady State	E212007		PT212007		0.0	8,760.0		4,000.0	6,000.0	60.0	110.0
OS212008	DEWATR PRES1	WASTEWATER TREATMENT PLANT: DEWATERING PRESS 1	Normal - Steady State	E212008		PT212008		0.0	8,760.0		2,500.0	100.0	60.0	110.0

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U 212 BLDG 212 WASTEWATER TREATMENT PLANT

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS212009	DEWATR PRES2	WASTEWATER TREATMENT PLANT DEWATERING PRESS 2	Normal - Steady State	E212009		PT212008		0.0	8,760.0		2,500.0	100.0	60.0	110.0
OS212010	AER TNK 7	WASTEWATER TREATMENT PLANT: SECOND STAGE AERATION TANK 7	Normal - Steady State	E212010		PT212009		0.0	8,760.0				50.0	160.0
OS212011	AER TNK 8	WASTEWATER TREATMENT PLANT: SECOND STAGE AERATION TANK 8	Normal - Steady State	E212011		PT212010		0.0	8,760.0				50.0	160.0
OS212012	STG2 FNL CLA	WASTEWATER TREATMENT PLANT: SECOND STAGE FINAL CLARIFIER	Normal - Steady State	E212012		PT212011		0.0	8,760.0				50.0	160.0
OS212013	POLISH POND1	WASTEWATER TREATMENT PLANT: POLISHING POND 1	Normal - Steady State	E212013		PT212012		0.0	8,760.0				50.0	160.0
OS212014	POLISH POND2	WASTEWATER TREATMENT PLANT: POLISHING POND 2	Normal - Steady State	E212014		PT212013		0.0	8,760.0				50.0	160.0
OS212015	CONTACT TNK	WASTEWATER TREATMENT PLANT: SECOND STAGE CONTACT TANK	Normal - Steady State	E212015		PT212014		0.0	8,760.0				50.0	160.0
OS212016	POLISH FILTR	WASTEWATER TREATMENT PLANT: POLISHING FILTERS	Normal - Steady State	E212016		PT212015		0.0	8,760.0				50.0	160.0

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**U 218 BLDG 218 TANK FARM**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS4	T-9886	TANK FARM: 25,000 GAL. STORAGE TANK. T-9886	Normal - Steady State	E218004		PT218004		0.0	8,760.0		10.5	31.5	35.0	105.0
OS5	T-9887	TANK FARM: 25,000 GAL. STORAGE TANK. T-9887	Normal - Steady State	E218005		PT218005		0.0	8,760.0		10.5	31.5	35.0	105.0
OS11	T-9917	TANK FARM: 25,000 GAL. STORAGE TANK. T-9917	Normal - Steady State	E218011		PT218010		0.0	8,760.0		48.0	144.0	35.0	105.0
OS12	T-953	TANK FARM: 25,000 GALLON STORAGE TANK T-953	Normal - Steady State	E218012		PT218011		0.0	8,760.0		48.0	144.0	35.0	105.0

**U 222 BLDG 222 DERIVATIVES OF VITAMIN C**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS222001	X101A	DERIVATIVES: PREMIX-BLENDER (X101A)	Normal - Steady State	E222001	CD222001 (P)	PT222001		0.0	8,760.0		75.0	225.0	35.0	105.0
OS222002	X105A	DERIVATIVES: FINAL PRODUCT BLENDER (X105A)	Normal - Steady State	E222002	CD222001 (P)	PT222001		0.0	8,760.0		30.0	90.0	35.0	105.0

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**U 222 BLDG 222 DERIVATIVES OF VITAMIN C**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS222003	X106A	DERIVATIVES: FINAL PRODUCT BLENDER (X106A)	Normal - Steady State	E222003	CD222001 (P)	PT222001		0.0	8,760.0		30.0	90.0	35.0	105.0
OS222004	X103A	DERIVATIVES: GRANULATION PREDRYER (X103A)	Normal - Steady State	E222004	CD222001 (P)	PT222001		0.0	8,760.0		1,420.0	4,260.0	70.0	210.0
OS222005	T105	DERIVATIVES: SURGE HOPPER (T105)	Normal - Steady State	E222005	CD222001 (P)	PT222001		0.0	8,760.0		50.0	150.0	35.0	105.0
OS222006	D101	DERIVATIVES: LOSS IN WEIGH FEEDER (D101)	Normal - Steady State	E222006	CD222001 (P)	PT222001		0.0	8,760.0		25.0	75.0	70.0	210.0
OS222007	DUMP STATION	DERIVATIVES: 2ND FLOOR DUMP STATION	Normal - Steady State	E222007	CD222001 (P)	PT222001		0.0	8,760.0		5.0	15.0	35.0	105.0
OS222008	T106	DERIVATIVES: BAG FILLER (T106)	Normal - Steady State	E222008	CD222001 (P)	PT222001		0.0	8,760.0		12.5	37.5	35.0	105.0
OS222009	V105	DERIVATIVES: DRUM FILLER (V105)	Normal - Steady State	E222009	CD222001 (P)	PT222001		0.0	8,760.0		5.0	15.0	35.0	105.0
OS222010	X104E	DERIVATIVES: AIRLOCK X104E FOR X104A (NOODLE CONVEYING SYSTEM) (TUB DRYER)	Normal - Steady State	E222010	CD222001 (P)	PT222001		0.0	8,760.0					
OS222011	X107D	DERIVATIVES: AIRLOCK X107D (SIFTER)	Normal - Steady State	E222011	CD222001 (P)	PT222001		0.0	8,760.0					
OS222012	X108G	DERIVATIVES: CYCLONE (X108G)	Normal - Steady State	E222012	CD222002 (P)	PT222002		0.0	8,760.0		225.0	675.0	70.0	210.0
OS222013	M101	DERIVATIVES: CONE BLENDER (M101 )	Normal - Steady State	E222013	CD222003 (P)	PT222003		0.0	8,760.0		365.0	1,095.0	35.0	105.0
OS222014	X108	DERIVATIVES: DUMP STATION (X108)	Normal - Steady State	E222014	CD222004 (P) CD222005 (S)	PT222004		0.0	8,760.0		650.0	1,950.0	35.0	105.0

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**U 222 BLDG 222 DERIVATIVES OF VITAMIN C**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS222015	X108	GRANULATIONS: DUMP STATION (X108)	Normal - Steady State	E222014	CD222006 (P)	PT222005								
OS222016	X104A	DERIVATIVES: CONTINUOUS TUBULAR DRYER (X104A)	Normal - Steady State	E222015	CD222007 (P)	PT222006		0.0	8,760.0		600.0	1,800.0	85.0	225.0
OS222017	X107	DERIVATIVES: CONVEYING SYSTEM CYCLONE (X107)	Normal - Steady State	E222016	CD222007 (P)	PT222006		0.0	8,760.0		150.0	450.0	85.0	225.0
OS222018	X105A	DERIVATIVES: FINAL PRODUCT BLENDER (X105A)	Normal - Steady State	E222002	CD222008 (P)	PT222007		0.0	8,760.0		500.0	1,500.0	35.0	105.0
OS222019	X106A	DERIVATIVES: FINAL PRODUCT BLENDER (X106A)	Normal - Steady State	E222003	CD222008 (P)	PT222007		0.0	8,760.0		500.0	1,500.0	35.0	105.0
OS222020	T106	DERIVATIVES: TOTE FILLER (T106)	Normal - Steady State	E222008	CD222008 (P)	PT222007		0.0	8,760.0		500.0	1,500.0	35.0	105.0
OS222021	T112	DERIVATIVES: DUMP STATION T112	Normal - Steady State	E222017	CD222008 (P)	PT222007		0.0	8,760.0		500.0	1,500.0	35.0	105.0
OS222022	T113	DERIVATIVES: DUMP STATION T113	Normal - Steady State	E222018	CD222008 (P)	PT222007		0.0	8,760.0		500.0	1,500.0	35.0	105.0
OS222023	T114	DERIVATIVES: DUMP STATION T114	Normal - Steady State	E222019	CD222008 (P)	PT222007		0.0	8,760.0		500.0	1,500.0	35.0	105.0
OS222024	BIN AA T201	DERIVATIVES: BIN AA T201	Normal - Steady State	E222020	CD222009 (P)	PT222008		0.0	8,760.0		25.0	75.0	35.0	105.0
OS222025	BIN T207	DERIVATIVES: BIN T207	Normal - Steady State	E222021	CD222009 (P)	PT222008		0.0	8,760.0		7.5	22.5	35.0	105.0
OS222026	V201B	DERIVATIVES: V201B1	Normal - Steady State	E222022	CD222009 (P)	PT222008		0.0	8,760.0		10.0	30.0	35.0	105.0
OS222027	BIN T206	DERIVATIVES: BIN T206 WITH BIN VENT S2101	Normal - Steady State	E222023	CD222009 (P)	PT222008		0.0	8,760.0		25.0	75.0	35.0	105.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS222028	BLENDER X205	DERIVATIVES: BLENDER X205	Normal - Steady State	E222024	CD222009 (P)	PT222008		0.0	8,760.0		200.0	600.0	35.0	105.0
OS222029	BLENDER X206	DERIVATIVES: BLENDER X206	Normal - Steady State	E222025	CD222009 (P)	PT222008		0.0	8,760.0		200.0	600.0	35.0	105.0
OS222030	DRUMFILLV20	DERIVATIVES: DRUMFILLER V203	Normal - Steady State	E222026	CD222009 (P)	PT222008		0.0	8,760.0		3.0	9.0	35.0	105.0
OS222031	DRUMFILLV20	DERIVATIVES: DRUMFILLER V206	Normal - Steady State	E222027	CD222009 (P)	PT222008		0.0	8,760.0		3.0	9.0	35.0	105.0
OS222032	X202D	DERIVATIVES: DUMP STATION X202D	Normal - Steady State	E222029	CD222011 (P)	PT222010		0.0	8,760.0		606.5	1,819.5	35.0	105.0
OS222033	D205	DERIVATIVES: PULVERIZER D205 WITH CYCLONE X207D	Normal - Steady State	E222030	CD222012 (P)	PT222011		0.0	8,760.0		100.0	300.0	35.0	105.0
OS222034	X201G	DERIVATIVES: FEEDER X201G WITH CYCLONE X201C	Normal - Steady State	E222031	CD222013 (P)	PT222012		0.0	8,760.0		145.0	435.0	35.0	105.0
OS222035	T301	DERIVATIVES: HOLD BIN AA T301	Normal - Steady State	E222032	CD222014 (P)	PT222013		0.0	8,760.0		75.0	225.0	35.0	105.0
OS222036	T303	DERIVATIVES: SURGE BIN T303	Normal - Steady State	E222033	CD222014 (P)	PT222013		0.0	8,760.0		16.5	49.5	35.0	105.0
OS222037	X303A	DERIVATIVES: BLENDER X303A	Normal - Steady State	E222034	CD222014 (P)	PT222013		0.0	8,760.0		142.5	427.5	35.0	105.0
OS222038	V304	DERIVATIVES: PACKAGING V304	Normal - Steady State	E222035	CD222014 (P)	PT222013		0.0	8,760.0		3.0	9.0	35.0	105.0
OS222039	F0301	DERIVATIVES: KTRON FEEDER F0301	Normal - Steady State	E222045	CD222014 (P)	PT222013		0.0	8,760.0					
OS222040	H302	DERIVATIVES: DUMP STATION H302	Normal - Steady State	E222046	CD222014 (P)	PT222013		0.0	8,760.0					
OS222041	X301A	DERIVATIVES: GLATT FLUID BED DRYER X301A	Normal - Steady State	E222042	CD222021 (P)	PT222017		0.0	8,760.0		1,200.0	5,000.0	68.0	248.0



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**U 222 BLDG 222 DERIVATIVES OF VITAMIN C**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS222042	G0305	DERIVATIVES: AIR CLASSIFYING MILL G0305	Normal - Steady State	E222044	CD222020 (P)	PT222016		0.0	8,760.0		400.0	1,200.0	68.0	86.0
OS222043	X203	DERIVATIVES: X203	Normal - Steady State	E222036	CD222018 (P)	PT222014		0.0	8,760.0					
OS222044	R203	DERIVATIVES: SLURRY KETTLE R203	Normal - Steady State	E222037	CD222018 (P)	PT222014		0.0	8,760.0					
OS222045	R201	ASCORBIC ACID: REACTOR R201	Normal - Steady State	E222038	CD222018 (P)	PT222014		0.0	8,760.0		5.0	500.0	22.5	67.5
OS222046	T209	DERIVATIVES: SCRUBBER MOTHER LIQUOR TANK T209	Normal - Steady State	E222039	CD222018 (P)	PT222014		0.0	8,760.0					
OS222047	T204A	DERIVATIVES: TUBE DRYER T204A	Normal - Steady State	E222040	CD222016 (P) CD222017 (S) CD222018 (T)	PT222014		0.0	8,760.0					
OS222048	DS & HV	DERIVATIVES: DUMP STATIONS AND HOUSE VACUUM SYSTEM	Normal - Steady State	E222043	CD222019 (P)	PT222015		0.0	8,760.0		125.0	375.0	35.0	105.0
OS222049	MIX TANK	GLATT MIX TANK	Normal - Steady State	E222044	CD222019 (P)	PT222015		0.0	8,760.0		5.0	50.0	60.0	80.0

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**U 228 BLDG 210/228 FIRE PUMP DRIVERS**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	FIRE PUMP 28	BLDG 210, FIRE PUMP DRIVER #28	Normal - Steady State	E210001		PT210001		0.0	500.0					
OS2	FIRE PUMP 32	BLDG 228, FIRE PUMP DRIVER #32	Normal - Steady State	E228001		PT228001		0.0	500.0					
OS3	FIRE PUMP 33	BLDG 228, FIRE PUMP DRIVER #33	Normal - Steady State	E228002		PT228002		0.0	500.0					

**U 240 BUILDING 240 BUILDINGS 240, 241 and 242**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS240028	R205	BLDG 240: MEDIA MIXING TANK R205	Normal - Steady State	E240028	CD240007 (S) CD240008 (P) CD240012 (S)			0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240029	T202	BLDG 240: DUMP STATION T202	Normal - Steady State	E240029	CD240007 (S) CD240008 (P) CD240012 (S)			0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240032	R281	BLDG 240: INOCULUM TANK R281	Normal - Steady State	E240006		PT240015		0.0	8,760.0		0.0	200.0	44.0	260.0
OS240033	R284	BLDG 240: INOCULUM TANK R284	Normal - Steady State	E240007		PT240016		0.0	8,760.0		0.0	200.0	44.0	260.0
OS240034	R279	BLDG 240: FERMENTOR R279	Normal - Steady State	E240008		PT240017		0.0	8,760.0		0.0	4,700.0	44.0	260.0

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**U 240 BUILDING 240 BUILDINGS 240, 241 and 242**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS240035	R280	BLDG 240: FERMENTOR R280	Normal - Steady State	E240009		PT240018		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240036	R282	BLDG 240: FERMENTOR R282	Normal - Steady State	E240010		PT240019		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240037	R283	BLDG 240: FERMENTOR R282	Normal - Steady State	E240011		PT240020		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240038	R270	BLDG 240: INOCULUM TANK R270	Normal - Steady State	E240012		PT240021		0.0	8,760.0		0.0	200.0	44.0	260.0
OS240039	INOC TANK	INOC TANK FOR VOC PROCESSES	Normal - Steady State	E240013		PT240022		0.0	8,760.0	B	0.0	150.0	40.0	260.0
OS240040	R278	BLDG 240: INOCULUM TANK R278	Normal - Steady State	E240014		PT240023		0.0	8,760.0		0.0	200.0	44.0	260.0
OS240041	R260	BLDG 240: FERMENTOR / STORAGE TANK R260	Normal - Steady State	E240015		PT240024		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240042	R261	BLDG 240: FERMENTOR / STORAGE TANK R261	Normal - Steady State	E240016		PT240025		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240043	R273	BLDG 240: FERMENTOR / STORAGE TANK R273	Normal - Steady State	E240017		PT240026		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240044	R274	BLDG 240: FERMENTOR R274	Normal - Steady State	E240018		PT240027		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240045	R276	BLDG 240: FERMENTOR R276	Normal - Steady State	E240019		PT240028		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240046	R277	BLDG 240: FERMENTOR R277	Normal - Steady State	E240020		PT240029		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240048	R218B	BLDG 240: INOCULUM TANK R218B	Normal - Steady State	E240022		PT240031		0.0	8,760.0		0.0	200.0	44.0	260.0
OS240049	R218C	BLDG 240: INOCULUM TANK R218C	Normal - Steady State	E240023		PT240032		0.0	8,760.0		0.0	200.0	44.0	260.0

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**U 240 BUILDING 240 BUILDINGS 240, 241 and 242**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS240050	R220B	BLDG 240: FERMENTOR R220B	Normal - Steady State	E240024		PT240033		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240051	R220C	BLDG 240: FERMENTOR R220C	Normal - Steady State	E240025		PT240034		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240052	R220E	BLDG 240: FERMENTOR R220E	Normal - Steady State	E240026		PT240035		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240053	R220F	BLDG 240: FERMENTOR R220F	Normal - Steady State	E240027		PT240036		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240054	R205	BLDG 240: MEDIA MIXING TANK R205	Normal - Steady State	E240028	CD240008 (P) CD240012 (S)	PT240014		0.0	8,760.0		0.0	8,000.0	35.0	105.0
OS240055	T202	BLDG 240: DUMP STATION T202	Normal - Steady State	E240029	CD240008 (P) CD240012 (S)	PT240014		0.0	8,760.0		0.0	8,000.0	35.0	105.0
OS240056	R220A	BLDG 240: FERMENTOR R220A	Normal - Steady State	E240030		PT240037		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240057	R220D	BLDG 240: FERMENTOR R220D	Normal - Steady State	E240031		PT240038		0.0	8,760.0		0.0	4,700.0	44.0	260.0
OS240058	R300A	BLDG 240: BEER WELL R300A	Normal - Steady State	E240032		PT240007		0.0	8,760.0		0.0	140.0	35.0	105.0
OS240066	T335	BLDG 240: OIL STORAGE TANK T335	Normal - Steady State	E240039		PT240012		0.0	8,760.0		0.0	6.0	35.0	115.0
OS240067	FERMENTATIC	FERMENTER R274 FOR VOC PROCESSES	Normal - Steady State	E240018	CD240013 (P)	PT240039		0.0	8,760.0	B	1,000.0	2,400.0	50.0	86.0
OS240068	CENTRIFUGE	CENTRIFUGE FOR VOC PROCESSES	Normal - Steady State	E240040		PT240040		0.0	8,760.0	A	0.0	500.0	50.0	90.0
OS240069	MIX TANK	MIX TANK T601	Normal - Steady State	E240041	CD240014 (P)			0.0	8,760.0		2,000.0	80,000.0	40.0	212.0
OS240070	MIX TANK	MIX TANK T601	Normal - Steady State	E240041	CD240014 (P)	PT240014		0.0	8,760.0		0.0	5,300.0	40.0	212.0
OS240071	DUMP STATION	DUMP STATION T607	Normal - Steady State	E240042	CD240014 (P)			0.0	8,760.0		2,000.0	80,000.0	40.0	212.0

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**U 240 BUILDING 240 BUILDINGS 240, 241 and 242**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS240072	DUMP STATION	DUMP STATION T607	Normal - Steady State	E240042	CD240014 (P)	PT240014		0.0	8,760.0		0.0	5,300.0	40.0	212.0
OS240073	MULTI USE	FERMENTER/STORAGE TANK R261 MULTI USE	Normal - Steady State	E240016	CD240013 (P)	PT240039		0.0	8,760.0	B	1,000.0	2,400.0	50.0	86.0
OS241002	Room Exhaust	Conveying operations venting to room	Normal - Steady State	E241002		PT241001		0.0	8,760.0		200.0	400.0	50.0	90.0
OS241003	Dryer Exhaus	Dryer Exhaust	Normal - Steady State	E241003		PT241002		0.0	8,760.0		31,250.0	75,000.0	59.0	122.0
OS241004	Packaging	Surge hopper and packaging line	Normal - Steady State	E241004		PT241002		0.0	8,760.0		1.0	10.0	50.0	90.0
OS241005	Packaging	Surge hopper and packaging line	Normal - Steady State	E241004		PT241001		0.0	8,760.0		1.0	10.0	50.0	90.0
OS242001	SCREW CONVEY	BLDG 242: SCREW CONVEYOR	Normal - Steady State	E242001		PT242002		0.0	8,760.0					
OS242002	D0504	BLDG 242: FLUIDIZED BED DRYER D0504	Normal - Steady State	E242002	CD242001 (P)	PT242001		0.0	8,760.0		10,000.0	20,300.0	35.0	150.0
OS242003	HOPPER/PACK	BLDG 242: SURGE HOPPER AND PACKAGING AREA	Normal - Steady State	E242003	CD242001 (P)	PT242001		0.0	8,760.0		0.0	1,000.0	35.0	150.0

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**U 253 Lab Emergency Generator, 1.02 MMBtu/hr, 100 kW, Diesel Fuel**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Lab	Emergency Generator, 1.02 MMBtu/hr, 100 kW, Diesel Fuel, 99 hr/yr	Normal - Steady State	E253001		PT253001								

**U 262 BLDG 262 OPTIMA: BUILDING 262**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS262001	T130	OPTIMA: HOPPER T-130	Normal - Steady State	E262001				0.0	8,760.0		430.0	540.0	70.0	80.0
OS262002	D133	OPTIMA: TOWER D-133	Normal - Steady State	E262002	CD262001 (P) CD262003 (S)	PT262001		0.0	8,760.0		12,640.0	15,800.0	32.0	122.0
OS262003	D135	OPTIMA: DRYER D-135	Normal - Steady State	E262003	CD262003 (S)	PT262001		0.0	8,760.0		7,520.0	9,400.0	86.0	176.0
OS262004	T155	OPTIMA: DAY BIN T-155	Normal - Steady State	E262004	CD262003 (P)	PT262001		0.0	8,760.0		400.0	500.0	70.0	80.0
OS262005	M160	OPTIMA: BLENDER M-160	Normal - Steady State	E262005	CD262003 (P)	PT262001		0.0	8,760.0		20.0	25.0	70.0	80.0
OS262006	ROOM	BULK AND BAG UNLOADING X0142 AND T0142	Normal - Steady State	E262006	CD262004 (P)	PT262002		0.0	8,760.0		150.0	450.0	35.0	105.0
OS262007	K125	OPTIMA: BAG UNLOADING STATION K125	Normal - Steady State	E262007	CD262004 (P)	PT262002		0.0	8,760.0		150.0	450.0	35.0	105.0

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**U 262 BLDG 262 OPTIMA: BUILDING 262**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS262008	X0200	HASSIA AND LOADING STATION	Normal - Steady State	E262008	CD262004 (P)	PT262002		0.0	8,760.0		150.0	450.0	35.0	105.0
OS262009	S161	OPTIMA: SIFTER AND PACKAGING SYSTEM S161	Normal - Steady State	E262009	CD262004 (P)	PT262002		0.0	8,760.0		150.0	450.0	35.0	105.0
OS262011	K141	TOTE UNLOADING	Normal - Steady State	E262013	CD262004 (P)	PT262002		0.0	4,000.0		200.0	400.0	50.0	90.0
OS262014	T0130	BULK RECEIVER	Normal - Steady State	E262014	CD262004 (P)	PT262002		0.0	8,760.0		0.0	1,600.0	40.0	120.0
OS262015	D0133	DRIER	Shutdown	E262002	CD262004 (P)	PT262002		0.0	400.0		0.0	1,600.0	50.0	120.0

**U 265 CPU BLDG 264: LIQUID PRODUCT FORMS (LPF) & BLDG 265: CUSTOM PRODUCT UNIT (CPU)**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS26401	T-427	LPF: PROCESS TANK T-427 venting to Wet Scrubber X404	Normal - Steady State	E264001	CD264001 (P)	PT264001		0.0	8,760.0		800.0	1,200.0	35.0	105.0
OS26402	T-439	LPF: PROCESS TANK T-439 venting to Wet Scrubber X404	Normal - Steady State	E264002	CD264001 (P)	PT264001		0.0	8,760.0		800.0	1,200.0	35.0	105.0
OS26501	F401A	CPU: Bag Dump Station: F401A venting to DC X570.	Normal - Steady State	E265001	CD265001 (P)	PT265001		0.0	8,760.0		0.0	800.0	60.0	75.0

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**U 265 CPU BLDG 264: LIQUID PRODUCT FORMS (LPF) & BLDG 265: CUSTOM PRODUCT UNIT (CPU)**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS26502	F402A	CPU: Bag Dump Station: F402A venting to DC X570.	Normal - Steady State	E265002	CD265001 (P)	PT265001		0.0	8,760.0		0.0	800.0	60.0	75.0
OS26503	F404A	CPU: Bag Dump Station: F404A venting to DC X570.	Normal - Steady State	E265003	CD265001 (P)	PT265001		0.0	8,760.0		0.0	800.0	60.0	75.0
OS26504	W101	CPU: Ingredient Weighing Station: W101 venting to DC X570.	Normal - Steady State	E265004	CD265001 (P)	PT265001		0.0	8,760.0		0.0	400.0	60.0	75.0
OS26505	W102	CPU: Ingredient Weighing Station: W102 venting to DC X570.	Normal - Steady State	E265005	CD265001 (P)	PT265001		0.0	8,760.0		0.0	400.0	60.0	75.0
OS26506	M204	CPU: Lab Blender: M204 venting to DC X570. .	Normal - Steady State	E265006	CD265001 (P)	PT265001		0.0	8,760.0		0.0	400.0	60.0	75.0
OS26507	F203	CPU: Lab Grinder Chute Dumper: F203 venting to DC X570.	Normal - Steady State	E265007	CD265001 (P)	PT265001		0.0	8,760.0		0.0	400.0	60.0	75.0
OS26508	G203	CPU: Lab Grinder Feed Chute Discharge: G203 venting to DC X570.	Normal - Steady State	E265008	CD265001 (P)	PT265001		0.0	8,760.0		0.0	400.0	60.0	75.0
OS26509	G204	CPU: Lab Grinder Feed Chute Discharge: G204 venting to DC X570.	Normal - Steady State	E265009	CD265001 (P)	PT265001		0.0	8,760.0		0.0	400.0	60.0	75.0
OS26510	X513	CPU: Bag/Box/Drum Filler: X513 venting to DC X570.	Normal - Steady State	E265010	CD265001 (P)	PT265001		0.0	8,760.0		0.0	400.0	60.0	75.0
OS26511	X504	CPU: Pouch line Form/Fill/Seal: X504 venting to DC X570.	Normal - Steady State	E265011	CD265001 (P)	PT265001		0.0	8,760.0		0.0	600.0	60.0	75.0
OS26512	Blend & Fill	CPU: Blender & Filling line venting to DC X570.	Normal - Steady State	E265012	CD265001 (P)	PT265001		0.0	8,760.0		0.0	600.0	60.0	75.0



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U 265 CPU BLDG 264: LIQUID PRODUCT FORMS (LPF) & BLDG 265: CUSTOM PRODUCT UNIT (CPU)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS26513	F402B	CPU: Packaging Line #2	Normal - Steady State	E265013	CD265001 (P)	PT265001		0.0	8,760.0		0.0	250.0	60.0	75.0
OS26514	F404B	CPU: Packaging Line #4	Normal - Steady State	E265014	CD265001 (P)	PT265001		0.0	8,760.0		0.0	250.0	60.0	75.0
OS26515	F401B	CPU: Packaging Line #1	Normal - Steady State	E265015	CD265001 (P)	PT265001		0.0	8,760.0		0.0	250.0	60.0	75.0
OS26516	M402	CPU: Blender #2: Emissions venting to B265-S402 (CD265002)	Normal - Steady State	E265016	CD265002 (P)	PT265002		0.0	8,760.0		500.0	1,500.0	35.0	105.0
OS26517	M404	CPU: Blender #4: Emissions venting to B265-S404 (CD265004)	Normal - Steady State	E265017	CD265004 (P)	PT265004		0.0	8,760.0		440.0	1,320.0	35.0	105.0
OS26518	M401	CPU: Blender #1: Emissions venting to B265-S401 (CD265003)	Normal - Steady State	E265018	CD265003 (P)	PT265003		0.0	8,760.0		500.0	1,500.0	35.0	105.0
OS265019	M405	CPU: Gemco Blender: M405 venting to DC X570.	Normal - Steady State	E265019	CD265001 (P)	PT265001		0.0	8,760.0		0.0	250.0	35.0	105.0
OS265020	F305	CPU: Bag Dump Station: F305 venting to DC X570.	Normal - Steady State	E265020	CD265001 (P)	PT265001		0.0	8,760.0		0.0	800.0	35.0	105.0
OS265021	M0406	CPU: M0406 Post Lift Blender	Normal - Steady State	E265021	CD265001 (P)	PT265001		0.0	8,760.0		0.0	250.0	35.0	105.0

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**U 213000 TO VOC Recovery System**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS214701	T5826	RECEIVER	Normal - Steady State	E214519	CD214507 (S)	PT214501		0.0	8,760.0	A	0.0	5.0	53.0	90.0
OS214705	T5845	TANK	Normal - Steady State	E214522	CD214507 (S)	PT214501		0.0	8,760.0	C	0.0	5.0	53.0	90.0
OS214706	T5851	TANK	Normal - Steady State	E214523	CD214507 (S)	PT214501		0.0	8,760.0	C	0.0	5.0	53.0	90.0
OS214709	T0512	TANK	Normal - Steady State	E214526	CD214507 (S)	PT214501		0.0	8,760.0	A	0.0	5.0	53.0	90.0
OS214710	COLUMN 8A	RECOVERY COLUMN	Normal - Steady State	E214512	CD214507 (S)	PT214501		0.0	8,760.0	C	0.0	5.0	53.0	90.0
OS214711	T0520	TANK	Normal - Steady State	E214513	CD214507 (S)	PT214501		0.0	8,760.0	A	0.0	5.0	53.0	90.0
OS214712	T5826	TANK	Normal - Steady State	E214519		PT214501		0.0	8,760.0	A	0.0	5.0	25.0	100.0
OS214713	T5845	TANK	Normal - Steady State	E214522		PT214501		0.0	8,760.0	A	0.0	5.0	25.0	100.0
OS214714	T5851	TANK	Normal - Steady State	E214523		PT214501		0.0	8,760.0	A	0.0	5.0	25.0	100.0
OS214716	T0512	TANK	Normal - Steady State	E214526		PT214501		0.0	8,760.0	A	0.0	5.0	25.0	100.0
OS214717	T0520	TANK	Normal - Steady State	E214513		PT214501		0.0	8,760.0	A	0.0	5.0	25.0	100.0

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U 214501 STEP: 5 STEP 5: MOBILE TANKER

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS214532	TANKER	MOBILE TANKER	Normal - Steady State	E214589		PT214505		0.0	8,760.0		0.0			