State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

AIR, ENERGY AND MATERIALS SUSTAINABILITY
Division of Air Quality and Radiation Protection
Bureau of Stationary Sources
401 E. State Street, 2nd floor, P.O. Box 420, Mail Code 401-02
Trenton, NJ 08625-0420

SHAWN M. LATOURETTE
Commissioner

Air Pollution Control Operating Permit
Significant Modification

Permit Activity Number: BOP240002 **Program Interest Number: 65473**

Mailing Address	Plant Location
JULIE JOHNSON PLANT MANAGER THE CHEMOURS CO FC LLC PO BOX 9001 - 67 CANAL RD Deepwater, NJ 08023	CHAMBERS WORKS 67 Canal Rd Deepwater Salem County

Initial Operating Permit Approval Date: **December 22, 2010**

Operating Permit Approval Date: **DRAFT**

Operating Permit Expiration Date: **December 21, 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: https://dep.nj.gov/boss. 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 https://dep.nj.gov/boss.

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://dep.nj.gov/wp-content/uploads/boss/applications-and-forms/administrative-hearing-request-checklist-and-tracking-form.pdf .

HEALTH IMPACT ASSESSMENT RELATED TO PFAS

The inclusion of Applicable Requirement #22 in the FC section of the compliance plan (PFAS Air Quality Impact Analysis) in this approval is solely for information-gathering purposes and does not authorize, permit, or approve the emission of PFAS from the facility. Permittee expressly acknowledges and agrees that neither the inclusion of Applicable Requirement #22 nor compliance with its terms shall be construed as limiting the Department's authority to make determinations relating to the regulation or legality of PFAS emissions. Permittee shall not assert, claim, or argue in any forum, proceeding, or context that this approval or Applicable Requirement #22 constitutes express or implied permission to emit PFAS from the facility.

If you have any questions regarding this permit approval, please call Aliya M. Khan at (609) [940-5677].

Approved by:

_____
David J. Owen

Enclosure

CC: Allie Donohue, United States Environmental Protection Agency, Region 2

Facility Name: CHAMBERS WORKS
Program Interest Number: 65473
Permit Activity Number: BOP240002

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Section A

Facility Name: CHAMBERS WORKS
Program Interest Number: 65473
Permit Activity Number: BOP240002

POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all Significant Source Operations[1] at the facility.

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO_x	CO	SO_2	TSP (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs* (total)	CO_2e[2]
Emission Units Summary	115	16.4	22.4	1.0	5.47	5.47	5.47	N/A	18.9	
Batch Process Summary	80.9	3.0	0.5	4.65	9.18	9.18	9.18	N/A	18.2	
Group Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Emissions	196	19.4	22.9	5.65	14.7	14.7	14.7	N/A	37.06	102,535

Table 2: Estimate of total emissions from all Insignificant Source Operations[1] 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_x	CO	SO_2	TSP (total)	PM_{10} (total)	$PM_{2.5}$[2] (total)	Pb	HAPs (total)
Insignificant Source Operations	31.2	11.7	2.61	0.78	11.3	11.3	11.3	N/A	14.8
Non-Source Fugitive Emissions	7.58	N/A	N/A	N/A	24.5	11.6	11.6	N/A	3.84

VOC: Volatile Organic Compounds
NOx: Nitrogen Oxides
CO: Carbon Monoxide
SO_2: Sulfur Dioxide
TSP: Total Suspended Particulates
Other: Any other air contaminant regulated under the Federal CAA
PM_{10}: Particulates under 10 microns
$PM_{2.5}$: Particulates under 2.5 microns
Pb: Lead
HAPs: Hazardous Air Pollutants
CO_2e: Carbon Dioxide equivalent
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).

*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.

[1] Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C. 7:27-22.1.
[2] Total CO_2e emissions for the facility.

Section A

Facility Name: CHAMBERS WORKS
Program Interest Number: 65473
Permit Activity Number: BOP240002

POLLUTANT EMISSIONS SUMMARY

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations [3]:

HAP	TPY
Benzene	0.87
Chloroform	0.84
Hydrogen Chloride 2.0	2.0
Hexamethylene 1,6	0.014
Hydrogen Fluoride	Hydrogen
Methyl Chloride	4.55
Methylene Chloride	2.0
MIBK	13.73
Nitrobenzene	0.4
Phosgene	0.2
Tetrachloroethylene	2.72
Xylene	8.86

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

Other Air Contaminant	TPY
Hydrogen	30.4

[3] 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: CHAMBERS WORKS
Program Interest Number: 65473
Permit Activity Number: BOP240002

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 an affirmative defense, consistent with General Provision #10 below, 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.

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. The permittee may not assert an affirmative defense to penalty liability for non-compliance with a provision or condition of the operating permit that is based on any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT. An affirmative defense to penalty liability for non-compliance with a provision or condition of the operating permit may be asserted by a permittee if:

    a. The provision or condition of the operating permit is based solely on State or local law; and

    b. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5.

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 https://dep.nj.gov/boss/applications-and-forms/ (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: https://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:

a. 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

b. 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]

25. Any emission limit values in an operating permit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to three significant figures (e.g. a printed limit of "1 lb/hr" means a limit of "1.00 lb/hr") except for concentration limits less than 10 parts per million (ppm). For such concentration limits, the emission limit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to two significant figures (e.g. a printed limit of "1 ppm" means a limit of "1.0 ppm").

26. Testing every five years shall be defined as no later than the end of the 60th month after the first required and each subsequent stack test was completed for the new or modified source.

Section C

Facility Name: CHAMBERS WORKS
Program Interest Number: 65473
Permit Activity Number: BOP240002

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:

SECTION	SUBJECT ITEM	ITEM #	REF. #
B	---	1	---
B	---	10b	---
D	FC	---	3
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Section D

Facility Name: CHAMBERS WORKS
Program Interest Number: 65473
Permit Activity Number: BOP240002

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

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FC 1

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GR1000	PC Area	: Affected Units: BP1000, BP1300, BP1400, BP1500, BP1600, BP1700, BP1800, U901 and U1500.	43

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CHAMBERS WORKS (65473)
BOP240002

Date: 6/24/2025

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 240001

Description of Modifications: The purpose of this permit application is to modify the existing Title V permit for the facility to include a reference to the national emission standards for hazardous air pollutants (NESHAP) for the site remediation source category. EPA recently finalized an amendment to this source category that removed an exemption of the regulation for sites conducting remediation under the RCRA Corrective Action program. With the exemption removed, Chambers Works is now required to meet applicable provisions of 40 CFR 63 Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation. A Notice of Compliance Statement to the applicable requirements was submitted to NJDEP and EPA and is attached for your review.

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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

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: http://www.state.nj.us/dep/online/. 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.

New Jersey Department of Environmental Protection
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]

New Jersey Department of Environmental Protection
Facility Specific Requirements

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: http://www.state.nj.us/dep/online/ . 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]

New Jersey Department of Environmental Protection
Facility Specific Requirements

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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	An air quality impact/dispersion analysis shall be conducted to evaluate the air quality impacts from the facility's emissions of "Perfluoroalkyl and polyfluoroalkyl substances" or "PFAS." PFAS means substances that include any member of the class of fluorinated organic chemicals containing at least one fully fluorinated carbon atom. The protocol and air quality impact/dispersion modeling analysis shall be prepared consistent with Technical Manual (TM) 1002 "Guidance on Preparing an Air Quality Modeling Protocol." (https://dep.nj.gov/boss). Additionally, a deposition analysis using Community Multiscale Air Quality (CMAQ) for the emissions of PFAS shall be conducted by the Department or by the permittee with methodologies prescribed by the Department [N.J.A.C. 7:27-22.16(a)] [N.J.A.C. 7:27-22.16(a)]			Submit a report: *Receive technical information Within 180 calendar days of this approval, the permittee shall submit an air quality modeling protocol prepared consistent TM 1002 for the Department's review and approval. The protocol shall contain the following information: 1. The maximum total annual and hourly speciated PFAS emissions discharged from the facility. 2. Actual hourly speciated PFAS emission rates from each piece of equipment. 3. The equipment, both significant and insignificant, that emits PFAS. 4. The maximum annual and hourly speciated PFAS emissions discharged from each piece of equipment. 5. Stack parameters in effect during the discharge of PFAS for each piece of equipment, including, but not limited to, the following: stack designation, stack height, volumetric flowrate range, and stack discharge temperature. For the information outlined above, all PFAS emissions shall be speciated into individual compounds and PFAS emission calculation methodogy shall be outlined. Within 60 days of approval of the protocol, the permittee shall submit the air quality dispersion modeling analysis. The permittee shall respond within 30 calendar days to any Department requests for additional information on the protocol or the air quality dispersion analysis. The permittee shall also respond within 30 calendar days to any Department request related to the deposition analysis. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **FG1000 Building Demolition**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Asbestos and lead will be remediated prior to building demolition. [N.J.A.C. 7:27-20]	None.	Other: Keep relevant records.[N.J.A.C. 7:27-22].	None.
2	During all demolition activities, surfaces being demolished will be wetted to help control dust generation. [N.J.A.C. 7:27-22]	None.	None.	None.
3	Keep records of the number and size of buildings demolished each year. [N.J.A.C. 7:27-22]	None.	Other: Keep relevant records.[N.J.A.C. 7:27-22].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **FG1001 Leak detection from valves, flanges, pump seals, agitator seals, etc. and repair**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall comply with the applicable standards for leak detection and repair for non-source fugitive emissions as required in N.J.A.C. 7:27-16.18. [N.J.A.C. 7:27-16.18]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in N.J.A.C. 7:27-16.18.[N.J.A.C. 7:27-16.18].	Other: In addition to all relevent recordkeeping requirements stipulated in N.J.A.C. 7:27-16.18, the owner or operator will maintain, the following information for all equipment subject to LDAR monitoring: - The identification of each LDAR component - The inspection date - The inspector's name - The type of inspection conducted (visual check vs actual monitoring) - The inspection results.[N.J.A.C. 7:27-16.18].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **FG1002 SET: LANDFILLS, FG1005 Fluoroproducts Business Unit Maintenance and Sampling Activity, FG1006 Particulate Matter from Paved Roads, FG1007 Particulate Matter from Unpaved Roads, FG3501 Mix Tank #1 Filling, FG3502 Mix Tank #2 Filling, FG3503 Filter Press #1 Operation, FG3504 Filter Press #2 Operation, FG3505 Filter Press #3 Operation, FG3506 Diesel Tank Filling, FG5500 DPE: Purging of TFE Lines venting to Hotwell TC-343**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [N.J.A.C. 7:27-22]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **FG1004 [3] STORAGE VESSEL (PRESSURIZED TANK)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	These tanks should be maintained under a pressure greater than one atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **FG1800 SMPF: Purging of TFE Header Line**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Two purge events per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1003 [6] Surface Cleaning Operation (Degreaser)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	This cold cleaning machine has capacity of <= 100 gallons. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The following provisions shall apply to a cold cleaning machine, that uses two gallons or more of solvents containing greater than five percent VOC content by weight for the cleaning of metal parts, and to any heated cleaning machine. [N.J.A.C. 7:27-16.6(j)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	No person shall add solvent to a cold cleaning machine or a heated cleaning machine, or cause, suffer, allow, or permit the machine to be operated, unless the following requirements are met: i. If the machine is an immersion cold cleaning machine or heated cleaning machine, it shall have: (1) A freeboard ratio of 0.75 or greater; and (2) A visible fill line and a high level liquid mark; ii. The machine shall have a permanent, conspicuous label placed in a prominent location on the machine setting forth the applicable provisions of the operating requirements in (j)2 below; and iii. The machine shall be equipped with: (1) 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. For a remote reservoir cold cleaning machine which drains directly into the solvent storage reservoir, a perforated drain with a diameter of not more than six inches shall constitute an acceptable cover; and (2) If the machine is a heated cleaning machine, a thermostat. [N.J.A.C. 7:27-16.6(j)1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	A person shall operate a cold cleaning machine or a heated cleaning machine in accordance with the following procedures: i. The solvent level in the machine shall not exceed the fill line when there are no parts in the machine for cleaning and shall not exceed the high level liquid mark during cleaning operations; ii. Flushing of parts with a solvent spray, using a spray head attached to a flexible hose or other flushing device, shall be performed only within the freeboard area of the machine. The solvent spray shall be a continuous fluid stream, not an atomized or shower spray, and shall be under a pressure that does not exceed ten pounds per square inch gauge; iii. Parts being cleaned shall be drained for at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts shall be positioned so that solvent drains directly back into the machine. [N.J.A.C. 7:27-16.6(j)2i] through [N.J.A.C. 7:27-16.6(j)2iii]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	A person shall operate a cold cleaning machine or a heated cleaning machine in accordance with the following procedures: iv. When the machine's cover is open, the machine shall not be exposed to drafts greater than 40 meters per minute (132 feet per minute), as measured between one and two meters (between 3.3 and 6.6 feet) upwind and at the same elevation as the tank lip; v. Sponges, fabric, leather, paper products and other absorbent materials shall not be cleaned in the machine; vi. When a pump-agitated solvent bath is used, the agitator shall be operated to produce a rolling motion of the solvent with no observable splashing of solvent against the tank walls or the parts being cleaned. Air agitated solvent baths may not be used; vii. Spills during solvent transfer and use of the machine shall be cleaned up immediately, and the wipe rags or other sorbent material used shall be immediately stored in covered containers for disposal or recycling; viii. Waste solvent shall be collected and stored in a closed container. The closed container may contain a device that allows pressure relief, provided that it does not allow liquid solvent to drain from the container. [N.J.A.C. 7:27-16.6(j)2iv through [N.J.A.C. 7:27-16.6(j)2viii]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	A person shall operate a cold cleaning machine or a heated cleaning machine in accordance with the following procedures: ix. Work area fans shall be located and positioned so that they do not blow across the opening of the degreaser unit; and x. If the machine is a heated cleaning machine, the solvent shall be maintained at a temperature that is below its boiling point. [N.J.A.C. 7:27-16.6(j)2ix] and [N.J.A.C. 7:27-16.6(j)2x]	None.	None.	None.
7	A person shall not use, in a cold cleaning machine or a heated cleaning machine, any solvent that has a vapor pressure of one millimeter of mercury or greater, measured at 20 degrees centigrade (68 degrees Fahrenheit). [N.J.A.C. 7:27-16.6(j)3]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	A person who owns or operates a cold cleaning machine or a heated cleaning machine shall maintain, for not less than two years after the date of purchase of solvent for use in the machine, the information specified below and shall, upon the request of the Department or its representative, provide the information to the Department: i. The name and address of the person selling the solvent. An invoice, bill of sale, or a certificate that corresponds to a number of sales, if it has the seller's name and address on it, may be used to satisfy this requirement; ii. A list of VOC(s) and their concentration information in the solvent; iii. Information about each VOC listed pursuant to ii above. A Material Safety Data Sheet (MSDS) may be used to satisfy this requirement; iv. The solvents product number assigned by the manufacturer; and v. The vapor pressure of the solvent measured in millimeters of mercury at 20 degrees centigrade (68 degrees Fahrenheit). [N.J.A.C. 7:27-16.6(j)4i through [N.J.A.C. 7:27-16.6(j)4v]	None.	Other: Maintain readily available records for two years.[N.J.A.C. 7:27-16.6(j)4].	None.
9	This cold solvent cleaning machine shall not use any solvent containing methylene chloride (CAS No. 75-09-2), perchloroethylene (CAS No. 127-18-4), trichloroethylene (CAS No. 79-01-6), 1,1,1-trichloroethane (CAS No. 71-55-6), carbon tetrachloride (CAS No. 56-23-5) or chloroform (CAS No. 67-66-3), or any combination of these halogenated HAP solvents, in a total concentration greater than 5 percent by weight, as a cleaning and/or drying agent. [40 CFR 63.460(a)]	Other: The concentration of these solvents may be determined using EPA test method 18, material safety data sheets or engineering calculations.[40 CFR 63.460(a)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1004 [27] Manufacturing & Material Handling Equipment (< 50 lb/hr)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Limit raw material processing rate to less than 50 lbs/hr. [N.J.A.C. 7:27-22.1]	Monitored by material balance once per shift during operation. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual or electronic logging of raw material processing rate once per shift during operation.[N.J.A.C. 7:27-22.16(o)].	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, for a period of not longer than three (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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1005 [13] Storage Vessel (< 10,000 gallons, non-VOC/HAP), IS1006 [28] Storage Vessel (< 2,000 gallons), IS1014 [5] Storage Vessel (> 2,000 gal), IS1015 [12] Storage Vessel (> 10,000 gal), IS3513 Storage Vessel T-34 (Lime Slurry Storage), IS3514 TS-100 (WAL Accumulation Tank), IS3515 SET Storage tank (Previously E3201)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	If the tank contains distillate fuel for use in Salem County New Jersey (Zone 5), the maximum allowable sulfur content will be 500 ppm by weight July 1, 2014 through June 30, 2016. If the tank contains No. 6 Fuel Oil for use in Salem County New Jersey (Zone 5), the maximum allowable sulfur content will be 5,000 ppm by weight effective July 1, 2014. [N.J.A.C. 7:27- 9.2(a)]	Monitored by review of fuel delivery records per delivery. The permittee shall check the fuel oil sulfur content on the invoices/bills of lading. [N.J.A.C. 7:27-22.16(o)]	None.	None.
2	If the tank contains distillate fuel for use in Salem County New Jersey (Zone 5), the maximum allowable sulfur content will be 15 ppm by weight effective July 1, 2016. [N.J.A.C. 7:27- 9.2(a)]	Monitored by review of fuel delivery records per delivery. The permittee shall check the fuel oil sulfur content on the invoices/bills of lading. [N.J.A.C. 7:27-22.16(o)]	None.	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 the fuel was stored in New Jersey, may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.
4	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	The 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.
9	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.
10	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: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of Ref. #2 to #8 above and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1007 [5] Solids Storage Vessel (< 2,000 cf)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Storage vessel capacity <= 2,000 cubic feet. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, for a period of not longer than three (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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1009 [14] Fuel Combustion Equipment (< 1 MMBtu/hr), IS1016 CAER Bldg Emergency Generator, IS1017 FIrehouse Emergency Generator**

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 <= 3,000 ppmw effective through June 30, 2014. Sulfur content in Fuel less than or equal to 500 ppm effective from 7/1/14 to 6/30/16. Sulfur content in Fuel less than or equal to 15 ppm from 7/1/16 onwards. [N.J.A.C. 7:27- 9.2(b)]	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 fuel sulfur content and date of storage. [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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	An emergency generator shall be located at the facility and produce electrical power exclusively for use at the facility. This emergency generator shall be operated only: 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, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 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]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The Permittee shall maintain the following information: 1. 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; and 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. [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	An emergency generator shall not be used: 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 http://airnow.gov/, 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: http://www.state.nj.us/dep/aqpp/aqforecast; and 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)]	None.	None.	None.
6	An existing stationary CI RICE (constructed or reconstructed before June 12, 2006) with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, must comply with the applicable emission limitations and operating limitations in 40 CFR 63 Subpart ZZZZ no later than May 3, 2013. [40 CFR 63.6595(a)(1)]	None.	None.	None.
7	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	An owner or operator of an existing stationary emergency or black start RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions, or 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)]	None.	Other: Keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan[40 CFR 63.6655(e)].	None.
9	The owner/operator of an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	None.	Other: Keep records of engine operating hours using a non-resettable hour meter. The permittee must document total hours of emergency operation, including what classified the operation as emergency, and the total hours of non-emergency operation.[40 CFR 63.6655(f)].	None.
10	The permittee 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 after which the non-startup emission limitations apply. [40 CFR 63.6625(h)]	Other: Monitor each start-up.[N.J.A.C. 7:27-22.16(o)].	Other: Record each engine start-up and the time spent at "idle" during each start-up.[N.J.A.C. 7:27-25.16(o)].	None.
11	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)]	Other: The owner/operator must follow the manufacturer's emission-related operation and maintenance instructions, or the inhouse maintenance plan developed to maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.[40 CFR 63.6640(a)].	Other: Record each deviation as specified at [40 CFR 63.6640(b)] and[40 CFR 63.6655].	Submit a report: Other. The owner/operator must report each instance in which the RICE did not meet applicable each emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ. Report deviations according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	The permittee of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 shall: a) Change oil and filter every 500 hrs of operation or annually, whichever is first, b) Inspect air cleaner every 1,000 hrs of operation or annually, whichever is first, and c) Inspect all hoses and belts every 500 hours of operation or annually, whichever is first, and replace as necessary.[40 CFR 63 Subpart ZZZZ Table 2c 1]. [40 CFR 63.6602]	None.	Other: The permittee must keep records of all oil/oil filter changes, and air cleaner, hose and belt replacements. 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 63.10(b)(1). [40 CFR 63.6660(c)] and[40 CFR 63.6655].	Submit a report: Other. The owner/operator must report each instance in which the RICE did not meet applicable each emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ. Report deviations according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]
13	The permittee must demonstrate continuous compliance with each applicable emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ according to methods specified in Table 6 to 40 CFR 63 subpart ZZZZ. [40 CFR 63.6640(a)]	Other: The owner/operator must follow the manufacturer's emission-related operation and maintenance instructions, or the inhouse maintenance plan developed to maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.[40 CFR 63.6640(a)].	Other: Record each deviation [40 CFR 63.6640(b) and[40 CFR 63.6655].	Submit a report: Other. The owner/operator must report each instance in which the RICE did not meet applicable each emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ. Report deviations according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]
14	An existing emergency stationary (ES) RICE with a site rating <= 500 brake HP located at a major source of HAP emissions must be operated according to the following limitations: (i) There is no time limit on the use of ES RICE in emergency situations. (ii) The ES RICE may be operated 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 hrs/yr. (iii) The ES RICE may be operated up to 50 hrs/yr in non-emergency situations subject to the limitations specified in 40 CFR 63.6640(f)(1)(iii). Those 50 hours will be counted towards the 100 hrs/yr provided for maintenance and testing. [40 CFR 63.6640(f)(1)]	Monitored by hour/time monitor continuously. [40 CFR 63.6655(f)]	Other: 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.[40 CFR 63.6655(f)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1010 [46] Transfer Operations**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the transfer of any applicable VOC into any receiving vessel having a maximum capacity of 2,000 gallons (7,570 liters) or greater unless such transfer is made through a submerged fill pipe or by other means approved by the Department as being equally or more effective in preventing the emission of any VOC into the outdoor atmosphere during transfer. [N.J.A.C. 7:27-16.4(b)]	None.	Other: On a daily basis, record the name and total quantity of each applicable VOC, in gallons or liters, loaded into delivery vessels at the facility;[N.J.A.C. 7:27-16.4(o)].	None.
2	The total calculated annual emission rate of applicable VOC transferred into delivery vessels from each tank shall be <= 2000 pounds. [N.J.A.C.7:27-22.1] and [N.J.A.C. 7:27-16.4(f)]	Other: Monitored by calculations using the procedure specified at [N.J.A.C.7:27-16.4(g)].[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
3	No person shall cause, suffer, allow, or permit any tank truck having a maximum capacity of 2,000 gallons (7,570 liters) or greater to contain applicable VOC unless such tank truck is certified to comply with DOT regulations concerning inspection and pressure testing, codified at 40 CFR 180.407. A record of DOT certification shall be kept with the delivery vessel at all times. [N.J.A.C. 7:27-16.4(i)]	None.	None.	None.
4	No person shall cause, suffer, allow, or permit a transfer to a tank truck of applicable VOC, which transfer is subject to the provisions of [N.J.A.C.7:27-16.4(f)], if the tank truck being loaded is under a pressure in excess of 18 inches of water (34 millimeters of mercury) gauge. [N.J.A.C. 7:27-16.4(j)]	None.	None.	

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	No person shall cause, suffer, allow, or permit any transfer of applicable VOC, which transfer is subject to the provisions of [N.J.A.C.7:27-16.4(f)], if any components of the delivery vessel designed for preventing the release of applicable VOC vapors are not installed and operating as designed. [N.J.A.C. 7:27-16.4(k)]	None.	None.	None.
6	Any loading operation must cease immediately if the delivery vessel being loaded has leaking equipment that results in a concentration of VOC greater than or equal to 100 percent of the lower explosive limit of propane when measured at a distance within 1.0 inch (2.54 centimeters) of the source, is a liquid leak; or would result in a liquid leak of applicable VOC. [N.J.A.C. 7:27-16.4(k)]	None.	None.	None.
7	No person shall cause, suffer, allow, or permit the transport or storage of any applicable VOC in a delivery vessel having a maximum capacity of 2,000 gallons (7,570 liters) or greater unless such vessel, while containing any applicable VOC, is vapor-tight at all times, except during, sample collection, emergency conditions, gauging or venting through a vapor control apparatus approved by the Department. [N.J.A.C. 7:27-16.4(l)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1013 [20] Mixing and blending vessels.**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The 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.
6	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.
7	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: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of Ref. #2 to #8 above and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1018 [2] Grease Blending**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The grease blending tank in which mixing or blending of either solids and liquids takes place in a non-reactive process, must meet the following requirements: The vessel capacity is <= 1,000 gallons, The vapor pressure of any liquid, excluding the vapor pressure of water, is less than 1.5 pounds per square inch; and The vessel 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]	Monitored by the Department approved testing method upon request of the Department. [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.
2	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The 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.
5	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	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: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of Ref. #2 to #8 above and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1019 CRG Sample Processing**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, for a period of not longer than three (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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1020 CLIF Project Emergency Generator**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1 grams/brake horsepower-hour. [40 CFR 60.JJJJ]	None.	None.	None.
2	NOx (Total) <= 2 grams/brake horsepower-hour. [40 CFR 60.JJJJ]	None.	None.	None.
3	Carbon monoxide <= 4 grams/kW-hr. [40 CFR 60.JJJJ]	None.	None.	None.
4	NOx (Total) <= 0.4 lb/MW-hr. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	CO <= 0.25 lb/MW-hr. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	PM <= 0.1 lb/MW-hr [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	SO2 <= 0.01 lb/MW-hr. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	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.
9	Particulate emission limit 0.6 lb/hr (from the combustion of fuel based on rated heat input). [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
10	Generator fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	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: 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, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 3. When there is a voltage reduction issued by PJM and posted on the PJM website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Other: The Permittee shall record the following information: 1. 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; and 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.[N.J.A.C. 7:27-19.11].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	This emergency generator shall not be used: 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 http://airnow.gov/, 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 http://www.state.nj.us/dep/aqpp/aqforecast; and 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)]	None.	None.	None.
13	Hours of operation <= 100 hr/yr. The Permittee shall, once per month, record the total operating time from the generator's hour meter. [N.J.A.C. 7:27-19.11]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Other: The Permittee shall maintain on site and record in a logbook or computer data system the total operating time from the generator's hour meter. Once per month. [N.J.A.C. 7:27-19.11].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1021 [2] Other equipment, IS1700 [1] Lab Hood (<50 lb/hr), IS5501 [10] Lab hood (<50 lb/hr)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [N.J.A.C. 7:27-22]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS5500 [6] Manufacturing & Material Handling Equipment (< 50 lb/hr)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Limit raw material processing rate to less than 50 lbs/hr minus water. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS5504 Non-VOC, non-HAP storage vessel**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	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: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements above and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS5505 TFE/CO2 Transfer operations**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit any tank truck having a maximum capacity of 2,000 gallons (7,570 liters) or greater to contain applicable VOC unless such tank truck is certified to comply with DOT regulations concerning inspection and pressure testing, codified at 40 CFR 180.407. A record of DOT certification shall be kept with the delivery vessel at all times. [N.J.A.C. 7:27-16.4(i)]	None.	None.	None.
2	No person shall cause, suffer, allow, or permit the transport or storage of any applicable VOC in a delivery vessel having a maximum capacity of 2,000 gallons (7,570 liters) or greater unless such vessel, while containing any applicable VOC, is vapor-tight at all times, except during: Sample collection; emergency conditions; gauging; or venting through a vapor control apparatus approved by the Department. [N.J.A.C. 7:27-16.4(l)]	None.	None.	None.
3	On a daily basis, record the name and total quantity of each applicable VOC, in pounds or kilograms, unloaded at the facility. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by daily operating records.[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. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS5506 Blower - Sub-Slab Depressurization System-Ventilation Building**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The sub-slab depressurization system shall not be operated without active lead and lag carbon beds in circuit at all times. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the operation of each carbon bed and replace when "breakthrough" is detected. .[N.J.A.C. 7:27-22.16(o)].	Other: Keep records of the replacement history of each carbon bed.[N.J.A.C. 7:27-22.16(o)].	None.
2	Once per year determine the total VOC and HAPs emitted to the atmosphere. [N.J.A.C. 7:27-22.16(a)]	Monitored by grab sampling annually, 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 annually. [N.J.A.C. 7:27-22.16(o)]	None.
3	The permittee should determine for the remediation material treated or managed by the process vented through the affected process vents that the average total volatile organic hazardous air pollutant (VOHAP) concentration, as defined in § 63.7957, of this material is less than 10 parts per million by weight (ppmw). Determination of the VOHAP concentration is made using the procedures specified in § 63.7943. [40 CFR 63.7885(b)]	Monitored by grab sampling annually the permittee shall determine the VOHAP concentration using the procedures specified in 40 CFR 63.7943. [40 CFR 63.7943]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of an affected source shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review by the Department or USEPA. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS5507 Interceptor Wells System**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The Interceptor wells system, a closed vent system, shall collect groundwater pumped from the 5 wells listed beow to the wastewater treatment plant at the site • K06-R02CD • M14-R02CD • G08-R01C • G08-R01D •J05-W01E [40 CFR 63.7957]	Other: Monitor the operation of each well daily.[N.J.A.C. 7:27-22.16(o)].	Other: Keep records of the maintenace history of each well.[N.J.A.C. 7:27-22.16(o)].	None.
2	Once every two years determine the total VOC and HAPs emitted to the atmosphere. [N.J.A.C. 7:27-22.16(a)]	Monitored by grab sampling at the approved frequency, based on an instantaneous determination , once every two (2) years. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency , once every two (2) years. [N.J.A.C. 7:27-22.16(o)]	None.
3	Vollatie Organic HAP (VOHAP) < 500 ppmw. The permittee should determine the average VOHAP concentration, as defined in § 63.7957, of the remediation material managed in the remediation material management unit material is less than 500 parts per million by weight (ppmw). The permittee must follow the requirements in § 63.7943 to demostrate that the VOHAP concentration of the remediation material is less than 500 parts per million by weight (ppmw). [40 CFR 63.7886(b)(2)]	Monitored by grab sampling at the approved frequency , the permittee shall determine the VOHAP concentration using the procedures specified in 40 CFR 63.7943 once every two (2) years. [40 CFR 63.7943]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency , once every two (2) years. The owner or operator of an affected source shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review by the Department or USEPA. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	For each affected remediation material management unit the permittee must meet one of the options in paragraphs (b)(1)(i) through (v) of this section, as applicable to the unit. (1) The permittee shall control HAP emissions from the affected remediation material management unit according to the standards specified in paragraphs (b)(1) (v) of this section, as applicable to the unit. v) If the remediation material management unit is a transfer system, then you control HAP emissions according to the standards specified in §§ 63.7915 through 63.7918. [40 CFR 63.7886(b)]	Monitored by grab sampling at the approved frequency , once every two (2) years. The permittee shall control HAP emissions from the affected remediation material management unit according to the standards specified in paragraphs 63.7886(b)(1)(i) through 63.7886(v) as applicable to the unit. [40 CFR 63.7886(b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency , once every two (2) years. The owner or operator of an affected source shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review by the Department or USEPA. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63]	None.

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Subject Item: **IS5508 DNAPL 55-Gallon Drums**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The HAP emissions from 55-gallons drums used to store store dense non-aqueous phase liquid (DNAPL) at the site must be controlled from each new and existing container subject to § 63.7886(b)(1)(ii) according to emissions limitations and work practice standards in this section that apply to the affected containers [40 CFR 63.7900(a)]	Monitored by grab sampling at the approved frequency once every two (2) years for each container. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Keep records of the replacement history of each container. [N.J.A.C. 7:27-22.16(o)]	None.
2	If the design capacity of the DNAPL container is less than or equal to 0.46 m3, then you must use controls according to the standards for Container Level 1 controls as specified in § 63.922. As an alternative, you may choose to use controls according to either of the standards for Container Level 2 controls as specified in § 63.922(a) through § 63.922(f) [40 CFR 63.7900(b)(1)]	Monitored by other method (provide description) upon occurrence of event. The permittee shall monitor and meet the requirements for operation, management and maintenance of Container level 1 controls, as specified in §63.922(a) through §63.922.(f). [40 CFR 63.7943]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator of an affected source shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review by the Department or USEPA. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63]	None.

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Subject Item: **GR1 : Affected Units: U5500, BP1000, BP1300, BP1400, BP1500, BP1600, BP1700 and BP1800**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	You must comply with the general requirements specified at [40 CFR 63.2450]	None.	None.	None.
2	You must meet each emission limit in 40 CFR 63 Subpart FFFF Table 1 that applies to your continuous process vents, and you must meet each applicable requirement specified in paragraphs 40 CFR 63. 2455(b) and (c). [40 CFR 63.2455(a)]	None.	None.	None.
3	You must meet each emission limit in 40 CFR 63 Subpart FFFF Table 2 to this subpart that applies to your batch process vents, and you must meet each applicable requirement specified in paragraphs 40 CFR 63.2460(b) and (c). [40 CFR 63.2460(a)]	None.	None.	None.
4	You must meet each emission limit in 40 CFR 63 Subpart FFFF Table 3 that applies to your process vents that emit hydrogen halide and halogen HAP or HAP metals, and you must meet each applicable requirement in paragraphs 40 CFR 63.2465(b) through (d). [40 CFR 63.2465(a)]	None.	None.	None.
5	VOC (Total): You must meet each emission limit in 40 CFR 63 Subpart FFFF Table 4 that applies to your storage tanks, and you must meet each applicable requirement specified in paragraphs 40 CFR 63.2470 (b) through (e). [40 CFR 63.2470(a)]	None.	None.	None.
6	You must comply with each emission limit and work practice standard in 40 CFR 63 Subpart FFFF Table 5 that applies to your transfer racks, and you must meet each applicable requirement in paragraphs 40 CFR 63.2475(b) and (c). [40 CFR 63.2475(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	You must meet each requirement in 40 CFR 63 Subpart FFFF Table 6 that applies to your equipment leaks, except as specified in paragraphs 40 CFR 63.2480(b) and (d). [40 CFR 63.2480(a)]	None.	None.	None.
8	You must meet each requirement in 40 CFR 63 Subpart FFFF Table 7 that applies to your wastewater streams and liquid streams in open systems within an MCPU, except as specified in paragraphs 40 CFR 63.2485(b) through (o). [40 CFR 63.2485(a)]	None.	None.	None.
9	You must comply with each requirement in 40 CFR 63 Subpart FFFF Table 10 to this subpart that applies to your heat exchange systems, except as specified in paragraphs 40 CFR 63.2490(b) and (c). [40 CFR 63.2490(a)]	None.	None.	None.
10	Submit all notifications specified at [40 CFR 63.2515]	None.	None.	None.
11	You must submit each report in 40 CFR 63 Subpart FFFF Table 11. [40 CFR 63.2520(a)]	None.	None.	None.
12	You must keep the records specified in paragraphs 40 CFR 63.2525(a) through (k). [40 CFR 63.2525]	None.	None.	None.
13	See 40 CFR Subpart FFFF Table 12 for General Provisions that apply to you. [40 CFR 63.2540]	None.	None.	None.

GR1 : Affected Units: U5500, BP1000, BP1300, BP1400, BP1500, BP1600,

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Subject Item: **GR1000 : Affected Units: BP1000, BP1300, BP1400, BP1500, BP1600, BP1700, BP1800, U901 and U1500.**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particles: No person shall cause, suffer, allow or permit particles to be emitted through any stack or chimney into the outdoor air in excess of the maximum allowable emission rate based on either 99% efficiency of collection or 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	Other: Monitored by performance test principles set forth in [N.J.A.C.7:27-6.3(a)] and [N.J.A.C.7:27-6.3(b)] upon request of the Department. [N.J.A.C. 7:27- 6.2(a)].	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	Opacity: <= 20%. Opacity greater than 20%, exclusive of condensed water vapor, shall not exceed a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	VOC (Total): The maximum emission rate shall not exceed the maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent by volume of the VOC from each source operation. [N.J.A.C. 7:27-16.16(d)]	Other: Adhere to the operating scenario steps contained in the batch process inventory.[N.J.A.C. 7:27-22.16(o)].	Other: For each batch process, maintain records of: i) The chemical name and vapor pressure of VOC emitted from each source operation, ii) the percent concentration by volume of VOC in the source gas, iii) the volumetric gas flow rate, iv) the source gas Range classification, and v) the maximum allowable emission rate.[N.J.A.C. 7:27-16.16(g)].	None.
4	VOC (Total): The limits in Table 16A shall not apply to a source gas in Range A or B discharged into the outdoor atmosphere through an exhaust ventilation system which: i) Collects at least 60% by vol of Range A source gas, or 85% by vol of a Range B source gas, and, ii) is equipped with a vapor control system which prevents from being discharged into the outdoor atmosphere at least 85% by vol of the VOC collected, on an hourly basis. [N.J.A.C. 7:27-16.16(e)]	Other: Adhere to the operating scenario steps contained in the batch process inventory.[N.J.A.C. 7:27-22.16(o)].	Other: For each batch process, maintain records of total emissions for each operating scenario step, before and after control.[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	The permittee shall keep and maintain and have readily available at the facility operating instructions, batch sheets, batch records or standard operating procedures (SOPs) for the batch products or processes. The permittee shall ensure that the batch process is run in accordance with the operating instructions, batch sheets, batch records, SOPs and supporting documentation for each product or process. When there are deviations from the above operating instructions, batch sheets, batch records or SOPs, the facility shall evaluate each event and determine if the event is related to an applicable requirement within this permit. If the event is related to an applicable requirement the facility shall determine if a violation of an applicable requirement has occurred. Violations must be reported to the Regional Enforcement Office in accordance with this permit. [N.J.A.C. 7:27-22.16(a)]	Other: The permittee shall establish and maintain an environmental management system to ensure compliance with the operating instructions, batch sheets, batch records or standard operating procedures for each product or process. Emission calculations shall be performed for each batch product or process to demonstrate compliance with all applicable requirements.[N.J.A.C. 7:27-22.16(o)].	Other: The permittee shall record all parameters monitored by continuous data acquisition system (DAS) / electronic data storage or manual logging. In addition, the permittee shall maintain on-site all operating instructions, batch sheets, batch records or standard operating procedures for each product or process. They shall be readily available for inspection upon request by the Department or EPA. The operating instructions, batch sheets, batch records, SOPs or supporting documentation for each product or process shall include, at a minimum, the following information: 1. Product or process name; 2. Calculations to demonstrate compliance with all applicable requirements including, but not limited to, the hourly emissions for each piece of equipment; 3. A list of equipment or sets used and their operational parameters; 4. A list of control devices or sets used and their operational parameters; 5. A list of emission points or sets used and their operational parameters; and 6. A list of all raw materials including HAPs that are used.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Upon occurrence of event Deviations from operating instructions, batch sheets, batch records or standard operating procedures that are considered violations must be reported to the Regional Enforcement Office within 2 business days. These deviations shall also be reported in the six-month deviation report and annual certification report. [N.J.A.C. 7:27-22.16(o)]

GR1000 : Affected Units: BP1000, BP1300, BP1400, BP1500, BP1600, BP1

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Batch Process: **BP1000 PC - Building A - Product Manufacturing**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 and GR1000 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee is limited to the following batch products or processes: Avitex, Nalan, n-Decyl Crude Methacrylate, DIPAM, Blend Products, Polymerization Products, Distillation Products, Wash Products. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The permittee shall maintain an inventory of all products or intermediates manufactured on-site.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 3.7 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	TSP <= 0.2 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-10 (Total) <= 0.2 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	VOC (Total) <= 10 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1000. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.12 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1000. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.12 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1000. [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
9	Cooling Medium Flowrate >= 30 gal/min when being used for compliance with this permit for CD1001 (C-3), CD1002 (C-5), CD1004 (C-8), CD1005 (C-9), CD1006 (C-11) & CD1007 (C-13). [N.J.A.C. 7:27-22.16(e)]	Other: Cooling Medium Flowrate: Monitored by flow rate instrument continuously, based on a 1 hour block average.[N.J.A.C. 7:27-22.16(e)].	Cooling Medium Flowrate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(e)]	None.
10	Cooling Medium Outlet Temperature <= 105 degrees F (40.56 degrees C) when being used for compliance with this permit for CD1001 (C-3), CD1002 (C-5), CD1004 (C-8), CD1005 (C-9), CD1006 (C-11) & CD1007 (C-13). [N.J.A.C. 7:27-22.16(a)]	Cooling Medium Outlet Temperature: Monitored by temperature instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(e)]	Cooling Medium Outlet Temperature: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(e)]	None.
11	Cooling Medium Flowrate >= 8 gal/min when being used for compliance with this permit for CD1009 (C-15). [N.J.A.C. 7:27-22.16(e)]	Other: Cooling Medium Flowrate: Monitored by flow rate instrument continuously, based on a 1 hour block average.[N.J.A.C. 7:27-22.16(e)].	Cooling Medium Flowrate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(e)]	None.
12	Cooling Medium Outlet Temperature <= 105 degrees F (40.56 degrees C) when being used for compliance with this permit for CD1009 (C-15). [N.J.A.C. 7:27-22.16(e)]	Cooling Medium Outlet Temperature: Monitored by temperature instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(e)]	Cooling Medium Outlet Temperature: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(e)]	None.
13	Flowrate of Scrubbing Medium at Scrubber Inlet >= 3 gal/min when being used for compliance with this permit for CD1010 (SB-13). [N.J.A.C. 7:27-22.16(e)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(e)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(e)]	None.
14	Prior to the commencement of each batch the permittee shall adjust the flowrate of the operating liquid (scrubbing medium) to achieve a vacuum of 20 inches Hg in each of the following scrubbers: CD1011 (J-1), CD1012 (J-2), CD1013 (J-4), CD1014 (J-5), CD1015 (J-7), CD1016 (J-8), CD1018 (J-13), CD1019 (J-14), CD1020 (J-15), CD1021 (J-16), CD1022 (J-17), CD1023 (J-18), CD1024 (J-19), CD1025 (J-23), CD1026 (J-48) and CD1027 (J-12). [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by vacuum gauge continuously, 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 once per shift during operation. [N.J.A.C. 7:27-22.16(e)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Determine the group status of the batch process vents by determining and summing the uncontrolled organic HAP emissions from each of the batch process vents within the process using the procedures specified in 40 CFR 63.1257(d)(2)(i) and (ii) and 40 CFR 63.2460(b)(1) through (7). A Group 1 batch process vent means each of the batch process vents in a process for which the collective uncontrolled organic HAP emissions from all of the batch process vents are greater than or equal to 10,000 lb/yr at an existing source or greater than or equal to 3,000 lb/yr at a new source. 40 CFR 63.2550. [40 CFR 63.2460(b)]	None.	Other: Maintain records of calculations.[N.J.A.C. 7:27-22.16(a)].	None.
16	For Group 1 batch process vents: Reduce collective uncontrolled organic HAP emissions from the sum of all batch process vents within the process by 98% by weight by venting emissions from a sufficient number of the vents through one or more closed vent systems to any combination of control devices. [40 CFR 63.2460(a)]	Other: Conduct a performance test under worst case conditions according to 40 CFR 63.1257(b)(8). The owner/operator may elect to conduct a design evaluation of any combination of control devices under worst case conditions in accordance with [40 CFR 63.1257(a)(1)(vi)]. [40 CFR 63.2460(c)(2)(ii)].	Other: Performance test records shall be kept as specified in 40 CFR 63.998(a)(2).[40 CFR 63.2460].	Submit test results: Other - as specified in 40 CFR 63.999(a)(2). [40 CFR 63.2460]
17	For Group 1 batch process vents: Since the owner/operator reduces organic HAP emissions by venting emissions through a closed-vent system to control devices (absorbers/scrubbers), the requirements of 40 CFR 63.982(c) and the requirements referenced therein shall apply. [40 CFR 63.2450(e)(1)]	None.	None.	None.
18	For Group 1 batch process vents: Absorbers used to control organic HAP emissions shall be operated at all times when emissions are vented to them. [40 CFR 63.990(a)(2)]	Other: Review of operating records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain operating records.[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	For Group 1 batch process vents: Where an absorber is used to control organic HAP emissions, a scrubbing liquid temperature monitoring device and a specific gravity monitoring device, each capable of providing a continuous record, shall be used. If the difference between the specific gravity of the saturated scrubbing fluid and the specific gravity of the fresh scrubbing liquid is less than 0.02 specific gravity units, an organic monitoring device capable of providing a continuous record shall be used. (Organic monitoring device means a unit of equipment used to indicate the concentration level of organic compounds based on a detection principle such as infra-red, photo ionization, or thermal conductivity). [40 CFR 63.990(c)(1)]	Other: Monitoring to be conducted per procedures set forth in 40 CFR 63.996.[40 CFR 63.990(c)].	Recordkeeping by manual logging of parameter or storing data in a computer data system every 15 minutes. [40 CFR 63.998(b)(1)(i)]	None.

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Batch Process: **BP1300 PC - BUILDING 115 - Product Manufacturing**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 and GR1000 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee is limited to the following batch products or processes: Perfluoronated Hydrocarbons, and Telomer Products. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The permittee shall maintain an inventory of all products or intermediates manufactured on-site.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 4.9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.16 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.16 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 8.11 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1300. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.22 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1300. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.22 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1300. [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
9	Prior to the commencement of each batch the permittee shall verify the flowrate of the operating liquid (scrubbing medium) is at least 20 inches Hg in each of the following scrubbers: Scrubber CD1304 (J-1), Scrubber CD1306 (J-6), and Scrubber CD1308 (J-8) [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by vacuum gauge continuously.[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(e)]	None.
10	Determine the group status of the batch process vents by determining and summing the uncontrolled organic HAP emissions from each of the batch process vents within the process using the procedures specified in 40 CFR 63.1257(d)(2)(i) and (ii) and 40 CFR 63.2460(b)(1) through (7). A Group 1 batch process vent means each of the batch process vents in a process for which the collective uncontrolled organic HAP emissions from all of the batch process vents are greater than or equal to 10,000 lb/yr at an existing source or greater than or equal to 3,000 lb/yr at a new source. 40 CFR 63.2550. [40 CFR 63.2460(b)]	None.	Other: Maintain records of calculations.[N.J.A.C. 7:27-22.16(a)].	None.
11	For Group 1 batch process vents: Reduce collective uncontrolled organic HAP emissions from the sum of all batch process vents within the process by 98% by weight by venting emissions from a sufficient number of the vents through one or more closed vent systems to any combination of control devices. [40 CFR 63.2460(a)]	Other: Conduct a performance test under worst case conditions according to 40 CFR 63.1257(b)(8). The owner/operator may elect to conduct a design evaluation of any combination of control devices under worst case conditions in accordance with [40 CFR 63.1257(a)(1)(vi)]. [40 CFR 63.2460(c)(2)(ii)].	Other: Performance test records shall be kept as specified in 40 CFR 63.998(a)(2).[40 CFR 63.2460].	Submit test results: Other - as specified in 40 CFR 63.999(a)(2). [40 CFR 63.2460]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	For Group 1 batch process vents: Since the owner/operator reduces organic HAP emissions by venting emissions through a closed-vent system to control devices (absorbers/scrubbers), the requirements of 40 CFR 63.982(c) and the requirements referenced therein shall apply. [40 CFR 63.2450(e)(1)]	None.	None.	None.
13	For Group 1 batch process vents: Absorbers used to control organic HAP emissions shall be operated at all times when emissions are vented to them. [40 CFR 63.990(a)(2)]	Other: Review of operating records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain operating records.[N.J.A.C. 7:27-22.16(o)].	None.
14	For Group 1 batch process vents: Where an absorber is used to control organic HAP emissions, a scrubbing liquid temperature monitoring device and a specific gravity monitoring device, each capable of providing a continuous record, shall be used. If the difference between the specific gravity of the saturated scrubbing fluid and the specific gravity of the fresh scrubbing liquid is less than 0.02 specific gravity units, an organic monitoring device capable of providing a continuous record shall be used. (Organic monitoring device means a unit of equipment used to indicate the concentration level of organic compounds based on a detection principle such as infra-red, photo ionization, or thermal conductivity). [40 CFR 63.990(c)(1)]	Other: Monitoring to be conducted per procedures set forth in 40 CFR 63.996.[40 CFR 63.990(c)].	Recordkeeping by manual logging of parameter or storing data in a computer data system every 15 minutes. [40 CFR 63.998(b)(1)(i)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Batch Process: **BP1400 PC - BUILDING 185 - PRODUCT MANUFACTURING**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 and GR1000 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee is limited to the following batch products or processes: Fluorinated Telomer Products, Telomer Urethanes, Polymer Products, Telomers- Dried, Telomers- Distilled, Intermediate Products, Telomer Phosphates, Blend Products. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The permittee shall maintain an inventory of all products or intermediates manufactured on-site.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 7.9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.1513 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.1513 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Total HAPs <= 4.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Hexamethylene-1,6-diisocyanate <= 0.0136 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Methyl isobutyl ketone (MIBK) <= 3.71 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Total HAPs <= 3.2 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1400. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Hexamethylene-1,6-diisocyanate <= 0.6 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1400. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Methyl isobutyl ketone (MIBK) <= 2.58 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1400. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-10 (Total) <= 0.41 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1400. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 0.41 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1400. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	VOC (Total) <= 5.27 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1400. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Contaminant Side Outlet Temperature <= 212 degrees F (100 degrees C), when operating the following condensers: CD1400 (C-10), CD1402 (C-15), CD1403 (C-40), CD1405 (C-50), CD1407 (C-30), CD1409 (C-60) and CD1413 (C-66). [N.J.A.C. 7:27-22.16(a)]	Contaminant Side Outlet Temperature: Monitored by temperature instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Contaminant Side Outlet Temperature: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Prior to the commencement of each batch the permittee shall verify the flowrate of the operating liquid (scrubbing medium) such that the vacuum generated is at least 20 inches Hg vacuum in each of the following scrubbers: Scrubber CD1401 (J-10), Scrubber CD1404 (J-40), Scrubber CD1406 (J-50), Scrubber CD1408 (J-30), Scrubber CD1410 (J-60), Scrubber CD1412 (J-65) and Scrubber CD1414 (J-66). [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by vacuum gauge continuously.[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. [N.J.A.C. 7:27-22.16(o)]	None.
17	Flowrate >= 4 gal/min of scrubbing medium, when being used for compliance with this permit for CD1411(SB-40). [N.J.A.C. 7:27-22.16(a)]	Flowrate: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
18	Determine the group status of the batch process vents by determining and summing the uncontrolled organic HAP emissions from each of the batch process vents within the process using the procedures specified in 40 CFR 63.1257(d)(2)(i) and (ii) and 40 CFR 63.2460(b)(1) through (7). A Group 1 batch process vent means each of the batch process vents in a process for which the collective uncontrolled organic HAP emissions from all of the batch process vents are greater than or equal to 10,000 lb/yr at an existing source or greater than or equal to 3,000 lb/yr at a new source. 40 CFR 63.2550. [40 CFR 63.2460(b)]	None.	Other: Maintain records of calculations.[N.J.A.C. 7:27-22.16(a)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	For Group 1 batch process vents: Reduce collective uncontrolled organic HAP emissions from the sum of all batch process vents within the process by 98% by weight by venting emissions from a sufficient number of the vents through one or more closed vent systems to any combination of control devices. [40 CFR 63.2460(a)]	Other: Conduct a performance test under worst case conditions according to 40 CFR 63.1257(b)(8). The owner/operator may elect to conduct a design evaluation of any combination of control devices under worst case conditions in accordance with [40 CFR 63.1257(a)(1)(vi)]. [40 CFR 63.2460(c)(2)(ii)].	Other: Performance test records shall be kept as specified in 40 CFR 63.998(a)(2).[40 CFR 63.2460].	Submit test results: Other - as specified in 40 CFR 63.999(a)(2). [40 CFR 63.2460]
20	For Group 1 batch process vents: Since the owner/operator reduces organic HAP emissions by venting emissions through a closed-vent system to control devices (absorbers/scrubbers), the requirements of 40 CFR 63.982(c) and the requirements referenced therein shall apply. [40 CFR 63.2450(e)(1)]	None.	None.	None.
21	For Group 1 batch process vents: Absorbers used to control organic HAP emissions shall be operated at all times when emissions are vented to them. [40 CFR 63.990(a)(2)]	Other: Review of operating records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain operating records.[N.J.A.C. 7:27-22.16(o)].	None.
22	For Group 1 batch process vents Where an absorber is used to control organic HAP emissions, a scrubbing liquid temperature monitoring device and a specific gravity monitoring device, each capable of providing a continuous record, shall be used. If the difference between the specific gravity of the saturated scrubbing fluid and the specific gravity of the fresh scrubbing liquid is less than 0.02 specific gravity units, an organic monitoring device capable of providing a continuous record shall be used. (Organic monitoring device means a unit of equipment used to indicate the concentration level of organic compounds based on a detection principle such as infra-red, photo ionization, or thermal conductivity). [40 CFR 63.990(c)(1)]	Other: Monitoring to be conducted per procedures set forth in 40 CFR 63.996.[40 CFR 63.990(c)].	Recordkeeping by manual logging of parameter or storing data in a computer data system every 15 minutes. [40 CFR 63.998(b)(1)(i)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Batch Process: **BP1500 BUILDINGS 120, 234 AND 1156 (CAPSTONE INTERMEDIATES)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 and GR1000 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The Centrifuges CT-60 (A) and CT-60(B) are identical in size, operating parameters and emissions profile, and will be operating in the process interchangeably. Under no circumstances CT-60 (A) and CT-60(B) can be operated simultaneously [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor each week during operation, based on a 12 calendar month period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. Keep records of hours of operation of each centrifuge (CT-60 (A) and CT-60(B). [N.J.A.C. 7:27-22.16(o)]	Other (provide description): Other. Submit records of hours of operation of each centrifuge (CT-60 (A) and CT-60(B) on site to be readily available to NJDEP or EPA upon request. [N.J.A.C. 7:27-22.16(o)]
3	The permittee is limited to the following batch products or processes: Capstone Intermediates, Ethylation Products, Alcohol Products, Acrylate Products. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The permittee shall maintain an inventory of all products or intermediates manufactured on-site.[N.J.A.C. 7:27-22.16(o)].	None.
4	VOC (Total) <= 24.14 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 4.646 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 7.66 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 7.66 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 1 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1500. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 1.61 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1501. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	SO2 <= 2 lb/hr Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1500. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 1 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1500. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 1.61 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1501. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	VOC (Total) <= 53 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1500. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	VOC (Total) <= 76.8 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1501. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Scrubbing Medium Flow Rate >= 10 gal/min when being used for compliance with this permit for combined flow of CD1510 (SR-41) and CD1502 (Scrubber SB-41). Required when scrubber is in use for venting purposes. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
16	Caustic Solution (25% NaOH) Flow Rate >= 1.4 gal/min when being used for compliance with this permit for CD1502 (Scrubber SB-41) on a once through basis. Required when scrubber is in use for venting purposes. [N.J.A.C. 7:27-22.16(a)]	Monitored by scrubber flow rate instrument continuously, 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 each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Water Flow Rate >= 5 gal/min when the process is venting to CD1502 (Scrubber SB-41) on a once through basis. Required when scrubber is in use for venting purposes. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by water flow rate instrument continuously, 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 each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
18	Pressure Drop Across the Scrubber: Greater than zero and less than or equal to 30 in Hg when being used for compliance with this permit for CD1514 (Vacuum Jet J-41). Required when scrubber is in use for venting purposes. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure measurement device continuously, based on a 1 hour block average. [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 each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
19	Scrubbing Medium Flow Rate >= 0.5 gal/min when being used for compliance with this permit for CD1509 (Scrubber SB-42). [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
20	Scrubbing Medium Flow Rate >= 40 gal/min when being used for compliance with this permit for CD1503 (Scrubber SB-65). Required when scrubber is in use for venting purposes. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
21	pH of the Scrubbing Solution at the Inlet of the Scrubber >= 10 standard units when being used for compliance with this permit for CD1504 (Scrubber TG-65). Required when scrubber is in use for venting purposes. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by pH instrument before each batch during operation.[N.J.A.C. 7:27-22.16(o)].	pH of the Scrubbing Solution at the Inlet of the Scrubber: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
22	Contaminant Side Outlet Temperature <= 100 degrees C (212 F) when being used for compliance with this permit for CD1501 (Condenser C-41). Required when scrubber is in use for venting purposes. [N.J.A.C. 7:27-22.16(a)]	Contaminant Side Outlet Temperature: Monitored by temperature instrument each hour during operation, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Contaminant Side Outlet Temperature: Recordkeeping by manual logging of parameter or storing data in a computer data system each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	Determine the group status of the batch process vents by determining and summing the uncontrolled organic HAP emissions from each of the batch process vents within the process using the procedures specified in 40 CFR 63.1257(d)(2)(i) and (ii) and 40 CFR 63.2460(b)(1) through (7). A Group 1 batch process vent means each of the batch process vents in a process for which the collective uncontrolled organic HAP emissions from all of the batch process vents are greater than or equal to 10,000 lb/yr at an existing source or greater than or equal to 3,000 lb/yr at a new source. 40 CFR 63.2550. [40 CFR 63.2460(b)]	None.	Other: Maintain records of calculations.[N.J.A.C. 7:27-22.16(a)].	None.
24	For Group 1 batch process vents: Reduce collective uncontrolled organic HAP emissions from the sum of all batch process vents within the process by 98% by weight by venting emissions from a sufficient number of the vents through one or more closed vent systems to any combination of control devices. [40 CFR 63.2460(a)]	Other: Conduct a performance test under worst case conditions according to 40 CFR 63.1257(b)(8). The owner/operator may elect to conduct a design evaluation of any combination of control devices under worst case conditions in accordance with [40 CFR 63.1257(a)(1)(vi)]. [40 CFR 63.2460(c)(2)(ii)].	Other: Performance test records shall be kept as specified in 40 CFR 63.998(a)(2).[40 CFR 63.2460].	Submit test results: Other - as specified in 40 CFR 63.999(a)(2). [40 CFR 63.2460]
25	For Group 1 batch process vents: Since the owner/operator reduces organic HAP emissions by venting emissions through a closed-vent system to control devices (absorbers/scrubbers), the requirements of 40 CFR 63.982(c) and the requirements referenced therein shall apply. [40 CFR 63.2450(e)(1)]	None.	None.	None.
26	For Group 1 batch process vents: Absorbers used to control organic HAP emissions shall be operated at all times when emissions are vented to them. [40 CFR 63.990(a)(2)]	Other: Review of operating records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain operating records.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	For Group 1 batch process vents: Where an absorber is used to control organic HAP emissions, a scrubbing liquid temperature monitoring device and a specific gravity monitoring device, each capable of providing a continuous record, shall be used. If the difference between the specific gravity of the saturated scrubbing fluid and the specific gravity of the fresh scrubbing liquid is less than 0.02 specific gravity units, an organic monitoring device capable of providing a continuous record shall be used. (Organic monitoring device means a unit of equipment used to indicate the concentration level of organic compounds based on a detection principle such as infra-red, photo ionization, or thermal conductivity). [40 CFR 63.990(c)(1)]	Other: Monitoring to be conducted per procedures set forth in 40 CFR 63.996.[40 CFR 63.990(c)].	Recordkeeping by manual logging of parameter or storing data in a computer data system every 15 minutes. [40 CFR 63.998(b)(1)(i)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Batch Process: **BP1500 BUILDINGS 120, 234 AND 1156 (CAPSTONE INTERMEDIATES)**
Operating Scenario: **OS1501 TANK TRAILER SPOTS**
Step: **Step Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.75 lb/hr for a 2 hour duration which results in emissions of 1.50 lbs per tank trailer. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	No person shall permit the transfer of any applicable VOC into any receiving vessel having a maximum capacity of 2,000 gallons (7,570 liters) or greater unless such transfer is made through a submerged fill pipe or by other means approved by the Department as being equally or more effective in preventing the emission of any VOC into the outdoor atmosphere during transfer. Such submerged fill pipe shall be permanently affixed to any underground storage tank of 2,000 gallons or greater total capacity into which the VOC is transferred. This subsection shall not apply to a transfer to a manufacturing process vessel installed before December 17, 1979. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	No person shall allow the transfer of any applicable VOC into a delivery vessel, except railroad tank cars, from a tank of maximum capacity 2,000 gals or greater and having a total calculated annual emission rate over 2,000 lbs VOC from transfer operations, as determined pursuant to N.J.A.C.7:27-16.4(g), unless the transfer is from a tank equipped with a floating roof or the delivery vessel is connected to a vapor control device that reduces by at least 90 wt.% the total VOC emissions to the atmosphere, or a vapor balance system with all atmospheric vents positively closed during transfer. Such vapor balance system shall not return the vapors to any tank equipped with a floating roof. [N.J.A.C. 7:27-16.4(f)]	None.	None.	Conduct a performance test: At a common schedule agreed upon by the operator and the Administrator. Upon the request of the Department, any owner or operator utilizing a vapor control system shall demonstrate to the satisfaction of the Department achievement of the required control efficiency through testing performed when the ambient air temperature is 70 degrees Fahrenheit (21 degrees Celsius) or greater. [N.J.A.C. 7:27-16.4(p)]
4	A tank truck having a maximum capacity of 2,000 gallons or greater containing an applicable VOC shall be certified to comply with DOT inspection and pressure testing regulations, codified at 40 CFR Part 180.407. A record of DOT certification shall be kept with the delivery vessel at all times. [N.J.A.C. 7:27-16.4(i)]	None.	Other: The permittee shall keep a record of DOT certification with the tank truck at all times.[N.J.A.C. 7:27-22.16].	None.
5	No person shall permit a transfer to or from a tank truck of applicable VOC, if the tank truck being loaded is under a pressure in excess of 18 inches of water (34 millimeters of mercury) gauge or the tank truck being unloaded is under a vacuum in excess of six inches of water (11 millimeters of mercury) gauge. This provision shall not apply to the loading or unloading of applicable VOC that is typically stored or transferred at elevated pressure, or under vacuum, into or from a delivery vessel that is designed for pressure or vacuum service. [N.J.A.C. 7:27-16.4(j)]	Monitored by pressure drop instrument per delivery, 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 per delivery. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The permittee shall not transfer any applicable VOC if any components of the delivery vessel designed for preventing the release of applicable VOC vapors are not installed and properly operating. [N.J.A.C. 7:27-16.4(k)]	Monitored by visual determination per delivery, 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. 7:27-22.16(o)]	None.
7	The permittee must stop any loading operation immediately if: The delivery vessel being loaded, any control apparatus or other equipment serving the transfer operation has a leak that results in a concentration of VOC greater than or equal to 100 percent of the lower explosive limit of propane when measured at a distance within 1.0 inch (2.54 centimeters) of the source; or is a liquid leak; or would result in a liquid leak [N.J.A.C.7:27-16.4(k)(1)] and [N.J.A.C. 7:27-16.4(k)2]	Other: Visual inspection followed by emission monitoring using a portable instrument if a vapor leak is suspected.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain record of all leaks detected.[N.J.A.C. 7:27-22.16(o)].	None.
8	The permittee shall not permit the transport of any applicable VOC in any delivery vessel having a maximum capacity of 2,000 gallons or greater unless such vessel, while containing any applicable VOC, is vapor tight at all times, except during sample collection, emergency conditions, gauging, or venting through a vapor control apparatus approved by the Department. [N.J.A.C. 7:27-16.4(l)]	None.	None.	None.
9	The owner or operator of any VOC loading facility shall, on a daily basis, record the name and total quantity of each applicable VOC, in gallons or liters, loaded into delivery vessels at the facility. [N.J.A.C. 7:27-16.4(o)1]	Monitored by material feed/flow monitoring continuously based on each truck loaded. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system continuously based on daily recordkeeping, per occurrence of activity. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Batch Process: **BP1600 PC - BUILDING 1205 - PRODUCT MANUFACTURING**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The following Federal Rules apply to BP1600: 40 CFR 63 Subpart A 40 CFR 63 Subpart FFFF. [None]	None.	None.	None.
2	See Subject Items GR1 and GR1000 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	The permittee is limited to the following batch products or processes: Krytox(TM) functional fluids, BTPPC, DBEAAC, DBEAAC-3229, MPD 5039C, Triallyl Borate, Acetic Acid Heating, Surfactant 621 Preparation, Surfactant 621 Cleanup, HFA and Derivatives, SMPF Solutions, Methacrols, Telomers & Zonyls, Dry Films Solvent Exchange, Dry Films Finished Products. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The permittee shall maintain an inventory of all products or intermediates manufactured on-site.[N.J.A.C. 7:27-22.16(o)].	None.
4	VOC (Total) <= 9.16 tons/yr. This total includes the annual VOC emissions from tanks E1697 (TF-70) and E1698 (TF-71). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.51 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.51 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	HAPs (Total) <= 8.86 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Xylene <= 8.86 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	HAPs (Total) <= 2.85 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1600. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 0.6 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1600. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 0.6 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1600. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	VOC (Total) <= 9.5 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1600. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Contaminant Side Outlet Temperature <= 50 degrees C (122 degrees F) when being used for compliance with this permit for CD1602 (C-172). [N.J.A.C. 7:27-22.16(a)]	Contaminant Side Outlet Temperature: Monitored by temperature instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Contaminant Side Outlet Temperature: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
14	Contaminant Side Outlet Temperature <= 70 degrees C (158 degrees F) when being used for compliance with this permit for CD1606 (C-299). [N.J.A.C. 7:27-22.16(a)]	Contaminant Side Outlet Temperature: Monitored by temperature instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Contaminant Side Outlet Temperature: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
15	Contaminant Side Outlet Temperature <= 38 degrees C (100 degrees F) when being used for compliance with this permit for CD1607 (C-311) and CD1608 (C-312). NOTE: CD1607 (C-311) and CD1608 (C-312) are used for DryFilms operations. [N.J.A.C. 7:27-22.16(a)]	Contaminant Side Outlet Temperature: Monitored by temperature instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Contaminant Side Outlet Temperature: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Cooling Medium Inlet Temperature <= 45 degrees C (113 degrees F) when being used for compliance with this permit for CD1631 (C-403). [N.J.A.C. 7:27-22.16(a)]	Cooling Medium Inlet Temperature: Monitored by temperature instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Cooling Medium Inlet Temperature: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
17	Scrubbing Medium Flow Rate >= 5 gal/min when being used for compliance with this permit for CD1619 (SB-166). (Scrubbing medium = water). [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
18	Scrubbing Medium Flow Rate >= 2 gal/min when being used for compliance with this permit for CD1623 (J-4), CD1625 (SB-2) and CD1632 (J-319). Scrubbing medium for CD1623 (J-4), CD1625 (SB-2) and CD1632 (J-319) = water. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
19	Scrubbing Medium pH >= 10 standard units when CD1617 (Scrubber SB-114) is being used for compliance with this permit. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium pH: Monitored by scrubbing medium sampling once per batch during operation, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium pH: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
20	Scrubbing Medium Flow Rate >= 7 gal/min when being used for compliance with this permit for CD1620 (J-1) and CD1621 (J-2). Scrubbing medium = water. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
21	Cooling Medium Flowrate >= 1 gal/min when being used for compliance with this permit for CD1622 (C-6). Spray contact condenser-water spray injected for condensation/dissolution of vapors. [N.J.A.C. 7:27-22.16(a)]	Cooling Medium Flowrate: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Cooling Medium Flowrate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
22	Scrubbing Medium Flow Rate >= 70 gal/min when being used for compliance with this permit for CD1624 (SB-1). Scrubbing medium = water. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	Water only used as scrubbing medium when scrubber CD1626 (SB-126) is operating for compliance with this permit. Gases shall be vented through this scrubber during emergencies only. [N.J.A.C. 7:27-22.16(a)]	Monitored by scrubbing medium sampling upon occurrence of event, based on an instantaneous determination. The scrubbing medium shall be sampled every time the scrubber is used. [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 record the pH each time the scrubber is used for air pollution control. [N.J.A.C. 7:27-22.16(o)]	None.
24	Scrubbing Medium Flow Rate >= 3.4 gal/min when being used for compliance with this permit for CD1629 (J-317). Scrubbing medium = water. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
25	Scrubbing Medium Flow Rate >= 6 gal/min when being used for compliance with this permit for CD1633 (J-320). Scrubbing medium = water. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
26	Determine the group status of the batch process vents by determining and summing the uncontrolled organic HAP emissions from each of the batch process vents within the process using the procedures specified in 40 CFR 63.1257(d)(2)(i) and (ii) and 40 CFR 63.2460(b)(1) through (7). A Group 1 batch process vent means each of the batch process vents in a process for which the collective uncontrolled organic HAP emissions from all of the batch process vents are greater than or equal to 10,000 lb/yr at an existing source or greater than or equal to 3,000 lb/yr at a new source. 40 CFR 63.2550. [40 CFR 63.2460(b)]	None.	Other: Maintain records of calculations.[N.J.A.C. 7:27-22.16(a)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	For Group 1 batch process vents: Reduce collective uncontrolled organic HAP emissions from the sum of all batch process vents within the process by 98% by weight by venting emissions from a sufficient number of the vents through one or more closed vent systems to any combination of control devices. [40 CFR 63.2460(a)]	Other: Conduct a performance test under worst case conditions according to 40 CFR 63.1257(b)(8). The owner/operator may elect to conduct a design evaluation of any combination of control devices under worst case conditions in accordance with [40 CFR 63.1257(a)(1)(vi)]. [40 CFR 63.2460(c)(2)(ii)].	Other: Performance test records shall be kept as specified in 40 CFR 63.998(a)(2).[40 CFR 63.2460].	Submit test results: Other - as specified in 40 CFR 63.999(a)(2). [40 CFR 63.2460]
28	For Group 1 batch process vents, because the owner/operator reduces organic HAP emissions by venting emissions through a closed-vent system to control devices (absorbers/scrubbers), the requirements of 40 CFR 63.982(c) and the requirements referenced therein shall apply. [40 CFR 63.2450(e)(1)]	None.	None.	None.
29	For Group 1 batch process vents, absorbers used to control organic HAP emissions shall be operated at all times when emissions are vented to them. [40 CFR 63.990(a)(2)]	Other: Review of operating records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain operating records.[N.J.A.C. 7:27-22.16(o)].	None.
30	For Group 1 batch process vents, where an absorber is used to control organic HAP emissions, a scrubbing liquid temperature monitoring device and a specific gravity monitoring device, each capable of providing a continuous record, shall be used. If the difference between the specific gravity of the saturated scrubbing fluid and the specific gravity of the fresh scrubbing liquid is less than 0.02 specific gravity units, an organic monitoring device capable of providing a continuous record shall be used. (Organic monitoring device means a unit of equipment used to indicate the concentration level of organic compounds based on a detection principle such as infra-red, photo ionization, or thermal conductivity). [40 CFR 63.990(c)(1)]	Other: Monitoring to be conducted per procedures set forth in 40 CFR 63.996.[40 CFR 63.990(c)].	Recordkeeping by manual logging of parameter or storing data in a computer data system every 15 minutes. [40 CFR 63.998(b)(1)(i)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Batch Process: **BP1700 PC - J-26 / J-27 DUAL PERMIT**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 and GR1000 for more requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 24.9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP, PM10 and PM2.5 <= 0.5 tonsyr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Phosgene <= 0.2 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Hydrogen fluoride <= 2.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Hydrogen chloride <= 2 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Batch Process: **BP1700 PC - J-26 / J-27 DUAL PERMIT**
Operating Scenario: **OS1 PC - J-26 / J-27 DUAL PERMIT**
Step: **ST1 PC - J-26 / J-27 BLDG - KRYTOX PRODUCT MANUFACTURING**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee is limited to the following batch products or processes: Krytox [Catalyst prep, Polymerization, Hold tank, Crude distillation, Hydrolysis, Fluorination, Fluorine T/T, Purification of Krytox oil, Purification columns, Oil filtering & purification, Filter Regeneration operations, Molecular distillation, Fractional distillation, Volatiles check, Oil blending, Grease additives/blending (dispersion thickened grease)]. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The permittee shall maintain an inventory of all products or intermediates manufactured on-site.[N.J.A.C. 7:27-22.16(o)].	None.
2	Hydrogen fluoride <= 0.09 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1700. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hydrogen fluoride <= 10 ppmv. Measure the HF concentration at SB-163 emission point to demonstrate initial compliance with the SOTA performance level for inorganic acids. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 20 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1700. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 20 ppmv. Measure the VOC concentration at SB-163 emission point to demonstrate initial compliance to the SOTA performance level for organic compounds. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.5 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1700. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	TSP <= 0.5 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES1700. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Concentration of Chemical Additive in Scrubbing Solution: Scrubber (CD1704 / SB-164) medium concentration shall be either 2 -25% Sodium Hydroxide or 2 -48% Potassium Hydroxide. [N.J.A.C. 7:27-22.16(a)]	Concentration of Chemical Additive in Scrubbing Solution: Monitored by scrubbing medium sampling once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	Concentration of Chemical Additive in Scrubbing Solution: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
9	Scrubbing Medium Flow Rate >= 1 gal/min for CD1704 (SB-164). [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
10	Scrubbing Medium Flow Rate >= 2 gal/min for CD1702 (SB-181). [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
11	Scrubbing Medium Flow Rate >= 1.67 gal/min for CD1703 (SB-163). [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
12	Since the owner/operator uses halogen reduction devices to reduce hydrogen halide and halogen HAP emissions, the requirements of 40 CFR 63.994 and the requirements referenced therein shall apply. [40 CFR 63.2465(c)]	None.	None.	None.
13	Owner/operator shall identify all halogen scrubbers. [N.J.A.C.7:27-22.16(a)]. Halogen scrubbers shall be operated at all times when emissions are vented to them. [40 CFR 63.994(a)(2)]	Other: Review of operating records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain operating records. Maintain records of halogen scrubbers. [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
14	Halogen scrubbers and other halogen reduction devices shall reduce Halogen HAP emissions: by >= 99 wt.%, or to <= 20 ppmv. [40 CFR 63.2465(a)]	Other: Performance test conducted in accordance with 40 CFR 63.997. The owner/operator may elect to conduct a design evaluation in accordance with [40 CFR 63.1257(a)(1)].[40 CFR 63.994(b)(1)].	Other: Performance test records shall be kept as specified in 40 CFR 63.998(a)(2).[40 CFR 63.994(b)].	Submit test results: Other - as specified in 40 CFR 63.999(a)(2). [40 CFR 63.994(b)]
15	Halogen scrubbers shall be equipped with a pH monitoring device capable of providing a continuous record of the scrubber effluent. As an alternative to continuous measurement of pH, the owner/operator may elect to sample and analyze the scrubbing medium concentration once per batch during operation. [40 CFR 63.2450(k)(3)]. [40 CFR 63.994(c)(1)(i)]	Monitored by grab sampling once per batch during operation. [40 CFR 63.2450(k)(3)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [40 CFR 63.2450(k)(3)]	None.
16	Halogen scrubbers shall be equipped with a flow meter capable of providing a continuous record of the scrubber influent liquid flow. [40 CFR 63.994(c)(1)(ii)]	Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average. [40 CFR 63.998(b)]	Other: Monitoring results shall be recorded as specified in 40 CFR 63.998(b).[40 CFR 63.994(c)].	None.
17	Halogen scrubbers shall be equipped with a flow meter capable of providing a continuous record of the scrubber gas stream flow at the scrubber inlet. [40 CFR 63.994(c)(1)(ii)] NOTE: EPA agreed to waive this requirement during negotiations following DuPont's submittal of the pre-compliance report in 2007. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Changeout the CD1705 (AD-1) activated carbon charge every 10 days during operation. Any extension of the 10-day changeout schedule must be made through a minor modification. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Record the date and time of each activated carbon changeout. Record the number of batches produced on each charge of activated carbon.[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
19	Sample and analyze the water discharged from scrubber CD1703 (SB-163) as follows: Samples are to be collected as 48-hr and 72-hr composites. Onsite laboratory analysis of the composites will be done 3 days/week. [N.J.A.C. 7:27-22.16(a)]	Other: Analyze the samples for Hexafluoropropylene oxide dimer acid (HFPO-DA).[N.J.A.C. 7:27-22.16(o)].	Other: Keep detailed tabulations of all CD1703 water discharge analytical reults. Keep detailed records that correlate analytical results with the current 10-day activated carbon replacement strategy. Any extension to the 10 day carbon replacement strategy must be made through a minor modification.[N.J.A.C. 7:27-22.16(o)].	None.
20	Sample the inlet and outlet of CD1705 (AD-1) and analyze for the following PFAS components: Perfluorobutanoic acid Perfluoropentanoic acid Perfluorohexanoic acid Perfluoroheptanoic acid Perfluorooctanoic acid Perfluorodecanoic acid Hexafluoropropylene oxide dimer acid (HFPO-DA.). The public health impact of these emissions (and/or updated emissions) will be evaluated as part of the facility-wide risk analysis. [N.J.A.C. 7:27-22.16(a)]	Other: Sample the inlet and outlet of CD1705 using EPA Other Test Method 45 (OTM-45) at the schedule described below. Analyze the samples for all the specified PFAS components and HFPO-DA using EPA method 8321A and 537 (Modified). For twelve months sample CD1705 each quarter during operation. Therafter the sampling frequency may be reduced to once every six months. NOTE: The sampling frequency may be reevaluated after the analytical results of six sampling events are available for comparison. Any change to the sampling frequency must be made by processing a minor modification.[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. Keep detailed tabulations of all CD1705 (AD-1) inlet and outlet reults for all the specified PFAS components and HFPO-DA. Keep detailed records that correlate analytical results with the current 10-day activated carbon replacement strategy. Any extension to the 10 day carbon replacement strategy must be made through a minor modification. [N.J.A.C. 7:27-22.16(a)]	None.
21	A carbon adsorption system is installed for reducing the HFPO dimer acid and Per- and Polyfluoroalkyl substances (PFAS) concentration in wastewater discharged from scrubber SB-164/T-348 (CD1704), without impacting the HF emission control efficiency. The carbon adsorption system will include a caustic static mixer E1780 (MX-109) installed upstream of scrubber SB-164/T-348(CD1704), and an aqueous carbon adsorption unit E1781(AD-2) installed on the scrubber wastewater discharge to trench. [N.J.A.C. 7:27-22.16(a)]	Monitored by wastewater sampling each month during operation. Monitor both the inlet and outlet of the aqueous carbon bed AD-2 (E1781) for Hexafluoropropylene oxide dimer acid (HFPO-DA). Samples analyzed onsite for HFPO-Dimer Acid by Liquid Chromatography Mass Spectrometry (LC-MS/MS) should not show a detectable concentration of dimer acid in the stream exiting the adsorber. [N.J.A.C. 7:27-22.16(o)]	Other: The owner or operator shall maintain all records of the run times, testing performed and other relevant data during the wastewater sampling. Records shall be maintained on site and be readily available to the Department for five-years from the date of sampling. Keep detailed tabulations of all water discharge analytical results. Keep detailed records that correlate analytical results with the 6 months activated carbon adsorber (AD-2) replacement strategy.[N.J.A.C. 7:27-22.16(o)].	Comply with the requirement: Upon occurrence of event. Changeout the E1781 (AD-2) activated carbon charge at least every six months during operation, unless an outlet sample analysis detects HFPO dimer acid in the stream exiting the absorber, in which case it should be changed within 24 hours. [N.J.A.C. 7:27-22.16(o)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	Scrubbing Medium Flow Rate >= 2 gal/min for CD1706 (MX-109). [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements

Batch Process: **BP1700 PC - J-26 / J-27 DUAL PERMIT**
Operating Scenario: **OS1 PC - J-26 / J-27 DUAL PERMIT**
Step: **ST2 PC - BLDGS J-25 AND J-26 - PRODUCT MANUFACTURING**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee is limited to the following batch products or processes: Capstone FS-19, HFA Derivatives, Distillation Products, Blend Products. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The permittee shall maintain an inventory of all products or intermediates manufactured on-site.[N.J.A.C. 7:27-22.16(o)].	None.
2	HAPs (Total) <= 1.32 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES2000. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hydrogen chloride <= 0.64 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES2000. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Phosgene <= 0.04 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES2000. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Hydrogen fluoride <= 0.64 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES2000. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	NOx (Total) <= 2.25 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES2000. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	VOC (Total) <= 4.1 lb/hr. Worst-case hourly emission rate for any single source (piece of equipment) in equipment set ES2000. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Pressure Drop >= 2.5 and Pressure Drop <= 30 inches of Hg on the vacuum side of each scrubber when being used for compliance with this permit for CD2001 (J-113) and CD2026 (J-128). [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure measurement device continuously, based on a 1 hour block average. [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 once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
9	Pressure Drop Across the Scrubber >= 0.1 and Pressure Drop Across the Scrubber <= 1.5 inches H2O/ft of packing when being used for compliance with this permit for CD2000 (CL-157) and CD2003 (SB-107/CL-131). [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously, based on a 1 hour block average. [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 batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
10	Scrubbing Medium Flow Rate >= 50 gal/min when being used for compliance with this permit for CD2007 (Scrubber SB-180). [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
11	Scrubbing Medium Flow Rate >= 2 and Scrubbing Medium Flow Rate <= 20 gal/min when being used for compliance with this permit for CD2003 (Scrubber SB-107 / CL-131). [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
12	Since the owner/operator uses halogen reduction devices to reduce hydrogen halide and halogen HAP emissions, the requirements of 40 CFR 63.994 and the requirements referenced therein shall apply. [40 CFR 63.2465(c)]	None.	None.	None.
13	Owner/operator shall identify all halogen scrubbers. [N.J.A.C.7:27-22.16(a)]. Halogen scrubbers shall be operated at all times when emissions are vented to them. [40 CFR 63.994(a)(2)]	Other: Review of operating records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain operating records. Maintain records of halogen scrubbers. [N.J.A.C. 7:27-22.16(o)].	None.
14	Halogen scrubbers and other halogen reduction devices shall reduce Halogen HAP emissions: by >= 99 wt.%, or to <= 20 ppmv. [40 CFR 63.2465(a)]	Other: Performance test conducted in accordance with 40 CFR 63.997. The owner/operator may elect to conduct a design evaluation in accordance with [40 CFR 63.1257(a)(1)].[40 CFR 63.994(b)(1)].	Other: Performance test records shall be kept as specified in 40 CFR 63.998(a)(2).[40 CFR 63.994(b)].	Submit test results: Other - as specified in 40 CFR 63.999(a)(2). [40 CFR 63.994(b)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Halogen scrubbers shall be equipped with a pH monitoring device capable of providing a continuous record of the scrubber effluent. As an alternative to continuous measurement of pH, the owner/operator may elect to continuously monitor and record the caustic strength of the effluent. [40 CFR 63.2450(k)(3)]. [40 CFR 63.994(c)(1)(i)]	Monitored by pH instrument continuously, based on a 1 hour block average. [40 CFR 63.998(b)]	Other: Monitoring results shall be recorded as specified in 40 CFR 63.998(b).[40 CFR 63.994(c)].	None.
16	Halogen scrubbers shall be equipped with a flow meter capable of providing a continuous record of the scrubber influent liquid flow. [40 CFR 63.994(c)(1)(ii)]	Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average. [40 CFR 63.998(b)]	Other: Monitoring results shall be recorded as specified in 40 CFR 63.998(b).[40 CFR 63.994(c)].	None.
17	Halogen scrubbers shall be equipped with a flow meter capable of providing a continuous record of the scrubber gas stream flow at the scrubber inlet. [40 CFR 63.994(c)(1)(ii)]	Monitored by gas flow rate instrument continuously, based on a 1 hour block average. [40 CFR 63.998(b)]	Other: Monitoring results shall be recorded as specified in 40 CFR 63.998(b).[40 CFR 63.994(c)].	None.

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Facility Specific Requirements

Batch Process: **BP1800 BUILDING 1470 - SMPF**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 and GR1000 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee is limited to the following batch products or processes: PDA-4,6, Monomer 4431, BTFB and Methanol cleanout. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain production records.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 6.2 tons/yr. These emissions include a 0.48 tpy increment emitted by the oxygen analyser E1808. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 172.9 lb/hr. Worst case hourly emission rate for any single source in equipment set ES1800. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Flowrate of Scrubbing Medium at Scrubber Inlet >= 20 gal/min for SMPF scrubber (CD1800) based on 1 hour block average. [N.J.A.C. 7:27-22.16(a)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Monitored by scrubber flow rate instrument each hour during operation, based on a 1 hour block average. [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 each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
6	DDC-442 shall be used as a scrubber liquid for adsorption for SMPF scrubber (CD1800). [N.J.A.C. 7:27-22.16(a)]	Monitored by scrubbing medium sampling each week during operation. Scrubbing medium shall be replaced as needed. [N.J.A.C. 7:27-22.16(o)]	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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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Determine the group status of the batch process vents by determining and summing the uncontrolled organic HAP emissions from each of the batch process vents within the process using the procedures specified in 40 CFR 63.1257(d)(2)(i) and (ii) and 40 CFR 63.2460(b)(1) through (7). A Group 1 batch process vent means each of the batch process vents in a process for which the collective uncontrolled organic HAP emissions from all of the batch process vents are greater than or equal to 10,000 lb/yr at an existing source or greater than or equal to 3,000 lb/yr at a new source. 40 CFR 63.2550. [40 CFR 63.2460(b)]	None.	Other: Maintain records of calculations.[N.J.A.C. 7:27-22.16(a)].	None.
8	For Group 1 batch process vents: Reduce collective uncontrolled organic HAP emissions from the sum of all batch process vents within the process by 98% by weight by venting emissions from a sufficient number of the vents through one or more closed vent systems to any combination of control devices. [40 CFR 63.2460(a)]	Other: Conduct a performance test under worst case conditions according to 40 CFR 63.1257(b)(8). The owner/operator may elect to conduct a design evaluation of any combination of control devices under worst case conditions in accordance with [40 CFR 63.1257(a)(1)(vi)]. [40 CFR 63.2460(c)(2)(ii)].	Other: Performance test records shall be kept as specified in 40 CFR 63.998(a)(2).[40 CFR 63.2460].	Submit test results: Other - as specified in 40 CFR 63.999(a)(2). [40 CFR 63.2460]
9	For Group 1 batch process vents: Since the owner/operator reduces organic HAP emissions by venting emissions through a closed-vent system to control devices (absorbers/scrubbers), the requirements of 40 CFR 63.982(c) and the requirements referenced therein shall apply. [40 CFR 63.2450(e)(1)]	None.	None.	None.
10	For Group 1 batch process vents: Absorbers used to control organic HAP emissions shall be operated at all times when emissions are vented to them. [40 CFR 63.990(a)(2)]	Other: Review of operating records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain operating records.[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	For Group 1 batch process vents: Where an absorber is used to control organic HAP emissions, a scrubbing liquid temperature monitoring device and a specific gravity monitoring device, each capable of providing a continuous record, shall be used. If the difference between the specific gravity of the saturated scrubbing fluid and the specific gravity of the fresh scrubbing liquid is less than 0.02 specific gravity units, an organic monitoring device capable of providing a continuous record shall be used. (Organic monitoring device means a unit of equipment used to indicate the concentration level of organic compounds based on a detection principle such as infra-red, photo ionization, or thermal conductivity). [40 CFR 63.990(c)(1)]	Other: Monitoring to be conducted per procedures set forth in 40 CFR 63.996.[40 CFR 63.990(c)].	Recordkeeping by manual logging of parameter or storing data in a computer data system every 15 minutes. [40 CFR 63.998(b)(1)(i)]	None.
11	The two reactors (E1801) RE-1 and (E1808) RE-1B can be used intercahngebaly with each other. Under no cirmustances they can be operated together. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor and record the hours of operation of the reactors, RE-1 and RE-1B each year[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements

Emission Unit: **U901 DRY FILMS PROCESS EQUIPMENT**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR1000 Ref #'s 1 and 2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Raw Material/Air Contaminant List: ethane, methane, VertrelXF, TFE, methylcyclohexane, ditertiary butyl peroxide. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain production records.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 5.25 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 3.5 lb/hr for each source. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	The process absorber AB-94 (E901) pressure > 2 psig. (Applies to OS1). [N.J.A.C. 7:27-22.16(a)]	Monitored by pressure measurement device continuously, 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 each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
6	The process absorber AB-94 (E901) temperature < 0 degrees C. (Applies to OS1). [N.J.A.C. 7:27-22.16(a)]	Monitored by temperature instrument continuously, 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 each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	P-1469 (E904) shall not operate for more than 100 hours per year. (Applies to OS2). [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)].	Other: The permittee shall maintain a record of the total monthly and total year to date operating hours for P-1469.[N.J.A.C. 7:27-22.16(o)].	None.
8	Maximum production rate <= 400 lb/hr for OS1 through OS3. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records daily.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27-22.16(o)]	None.
9	The annual production <= 1752 tons/yr for OS1 through OS3. [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 or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements

Emission Unit: **U1500 ZI CONTINUOUS PROCESS - BUILDING 1486**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR1000 Ref #'s 1 and 2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Flowrate <= 90,000 gallons per day through the treatment system. [N.J.A.C. 7:27-22.16(a)]	Flowrate: Monitored by material feed/flow monitoring continuously , tank level change, or pump run time. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
3	The permittee shall insepct and maintain the Torit dust collectors CD1560 (F-2) and CD1561(F-3) and replace the filter media on a schedule which will ensure the dust collector efficiency is maitained. The Torit dust collectors shall be operated and maintained in accordance with the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination daily. The permittee shall conduct visual opacity inspections once per day during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor). If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation in either a logbook or readily accessible computer memories. The permittee shall record the date and result of maintenance inspection and date of filter replacement. The permittee shall conduct visual opacity inspections once per day and manually log daily in a permanently bound logbook and retain the following records: (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. [N.J.A.C. 7:27-22.16(o)]	None.
4	E1568: The permittee shall monitor the organics after the carbon adsorbers weekly. [N.J.A.C. 7:27-22.16(a)]	Monitored by periodic emission monitoring each week during operation. [N.J.A.C. 7:27-22.16(o)]	Other: Keep records of organics monitoring results together with carbon replacement dates.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements

Emission Unit: **U1601 PC-Bldg 1205-BP1600 Two Storage Tanks (E1697 and E1698)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	All stationary above ground storage tanks storing applicable VOC and having a capacity of greater than 2,000 gallons shall be painted and maintained white. [N.J.A.C. 7:27-16.2(b)1]	None.	None.	None.
2	No person shall cause, suffer, allow, or permit the transfer of any applicable VOC into any receiving vessel having a maximum capacity of 2,000 gallons (7,570 liters) or greater unless such transfer is made through a submerged fill pipe or by other means approved by the Department as being equally or more effective in preventing the emission of any VOC into the outdoor atmosphere during transfer. Such submerged fill pipe shall be permanently affixed to any underground storage tank of 2,000 gallons (7,570 liters) or greater total capacity into which the VOC is transferred. This subsection shall not apply to a transfer to a manufacturing process vessel installed before December 17, 1979. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
3	Both tanks E1697 (TF-70) and E1698 (TF-71) shall be equipped with an active nitrogen pad. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor operation of the nitrogen system.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain nitrogen system monitoring records.[N.J.A.C. 7:27-22.16(o)].	None.
4	The contents in both tanks E1697 (TF-70) and E1698 (TF-71) shall be limited to applicable VOC, that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure <= 0.04 psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by certified lab analysis once initially, for each VOC stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [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	The combined throughput for both tanks E1697 (TF-70) and E1698 (TF-71) shall not exceed 200,000 gal/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by tank gauging and/or metering continuously.[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. Record for each tank: i) The VOC transferred into the tank, ii) Date(s) of VOC transfer into the tank, iii) Vapor pressure of the VOC at standard conditions, iv) Quantity (gal) of VOC transferred into the tank, and v) Total quantity transferred for the month. [N.J.A.C. 7:27-22.16(o)]	None.
6	Maintain records for each storage tank specifying each VOC stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(s)1]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Record the date the tank contents (material) was replaced or material was added to the tank. [N.J.A.C. 7:27-16.2(s)] &. [N.J.A.C. 7:27-22.16(o)]	None.
7	VOC (Total) <= 1.58 tons/yr. (Annual emission limit for both tanks E1697 (TF-70) and E1698 (TF-71) included in U1601). [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. Calculations of annual emissions shall be made as specified in EPA's AP-42 (Tanks 4.0 or subsequent versions), or other calculation methodology approved by the Department. [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 annually. Copies of calculations for each tank shall be maintained at the facility for five years. [N.J.A.C. 7:27-22.16(o)]	None.
8	Do not transfer any applicable VOC from a delivery vessel into any stationary storage tank having a maximum capacity of 2,000 gallons (7,570 liters) or greater and having a total calculated annual emission rate over 1,000 lbs VOC (determined according to N.J.A.C.7:27-16.4(d)) unless the storage tank is equipped with: i) A vapor control apparatus which reduces by no less than 90% the concentration of VOC in the air-vapor mixture displaced during the transfer, or ii) A vapor balance system with a conservation vent adjusted to remain closed during transfer. [N.J.A.C. 7:27-16.4(c)]	None.	None.	None.

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Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total WWTP throughput <= 47 MMgals/day. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously, based on a 24 hour rolling average 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 daily. [N.J.A.C. 7:27-22.16(o)]	None.
2	Total WWTP throughput <= 17,155 MMgals/yr. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously, based on a consecutive 365 day period (rolling 1 day basis). [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
3	Total emissions: VOC (Total) <= 42.08 tons/yr. TSP <= 4.53 tons/yr. PM-10 <= 4.53 tons/yr. HAPs <= 18.9 tons/yr. Benzene <= 0.87 tons/yr. Choloroform <= 0.84 tons/yr. Methyl chloride <= 4.55 tons/yr. Methylene chloride <= 2.0 tons/yr. Methyl Isobutyl Ketone <= 10.02 tons/yr. Tetrachloroethylene <= 2.72 tons/yr. Nitrobenzene <= 0.4 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.
4	Pressure Drop Across the Baghouse <= 20 inches w.c. for CD3002 (TE-27), CD3004 (TE-28), CD3006 (TE-29), and CD3008 (TE-30). [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation The permittee shall record each instance of bag maintenance and bag replacement. . [N.J.A.C. 7:27-22.16(a)]	None.
5	Scrubbing Medium Flow Rate >= 3 gal/min during operation of carbon unloading scrubber CD3013 (SB-132). [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on an instantaneous determination during unloading operation. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: 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(a)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Particulates Control Efficiency >= 99.99 % (applies to particles 0.3 micron and larger) for CD3130 (TE-131). [N.J.A.C. 7:27-22.16(a)]	Particulates Control Efficiency: Monitored by the Department approved testing method upon request of the Department. [N.J.A.C. 7:27-22.16(o)]	Particulates Control Efficiency: 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.
7	Pressure Drop Across the Baghouse <= 50 inches w.c. for CD3130. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop instrument continuously . [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. The permittee shall record each instance of bag maintenance and bag replacement. [N.J.A.C. 7:27-22.16(o)]	None.
8	Scrubbing Medium Flow Rate >= 50 gal/min for CD3015 (SB-26) based on 1 hour block average. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average during operation. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
9	Scrubbing Medium Flow Rate >= 20 gal/min during loading of acid for CD3031 (SB-126) based on 1 hour block average. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously, based on a 1 hour block average during operation. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
10	Total annual benzene quantity from facility waste < 10 Mg/yr (11 ton/yr). [N.J.A.C. 7:27-22.16(a)]	Other: Determine the total annual benzene (TAB) quantity from facility waste by the procedures specified at [40 CFR 61.355]. Repeat the TAB determination at least once per year and whenever there is a change in the process generating the waste that could cause the TAB quantity to increase to 10 Mg/yr (11 ton/yr) or more. [40 CFR 61.355(a)(4)(ii)].	Other: If the total annual benzene quantity from facility waste is less than 10 Mg/yr (11 ton/yr) but is equal to or greater than 1 Mg/yr (1.1 ton/yr), the owner or operator shall comply with the recordkeeping requirements of [40 CFR 61.356]. [40 CFR 61.355(a)(4)(i)].	Submit a report: As per the approved schedule. If the total annual benzene quantity from facility waste is less than 10 Mg/yr (11 ton/yr) but is equal to or greater than 1 Mg/yr (1.1 ton/yr), then the owner or operator shall comply with the reporting requirements of [40 CFR 61.357]. . [40 CFR 61.355(a)(4)(i)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The owner or operator of affected sources subject to 40 CFR 63 Subpart DD is exempted from the requirements of 40 CFR 63.682 through 699 in situations when the total annual quantity of the HAP that is contained in the off-site material received at the plant site is less than 1 megagram per year. For a plant site to be exempted, the owner or operator must meet the requirements specified at 40 CFR 63.680(d)(1) through (d)(3). [40 CFR 63.680(d)]	None.	None.	None.
12	For each off-site material management unit that is part of an affected source, the owner or operator must determine, before placing off-site material in the off-site material management unit, that the average volatile organic hazardous air pollutant concentration (VOHAP concentration) of the off-site material is less than 500 parts per million by weight (ppmw) at the point-of-delivery. [40 CFR 63.683(b)(1)(iii)]	Other: Determine the average VOHAP concentration of the off-site material using the procedures specified in 40 CFR 63.694(b). Review and update the determination of the average VOHAP concentration at least once every calendar year following the date of the initial determination.[40 CFR 63.683(b)(1)(iii)].	Other: Maintain records of all relevant data.[N.J.A.C. 7:27-22.16(o)].	None.
13	For each process vent that is part of an affected source, the owner or operator must determine, before placing off-site material in the process equipment associated with the process vent, that the average VOHAP concentration of the off-site material is less than the ppmw at the point-of-delivery [40 CFR 63.683(c)(1)(ii)]. Process vent means an open-ended pipe, stack, or duct through which a gas stream containing HAP is continuously or intermittently discharged to the atmosphere from any of the processes listed in 40 CFR 63.680(c)(2)(i) through (c)(2)(vi) of this section. [40 CFR 63.681]	Other: Determine the average VOHAP concentration of the off-site material using the procedures specified in 40 CFR 63.694(b) before any portion of the off-site material stream is placed in the unit. Review and update the determination of the average VOHAP concentration at least once every calendar year following the date of the initial determination for the off-site material stream.[40 CFR 63.683(c)(1)(ii)].	Other: Maintain records of all relevant data.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	The owner or operator must control equipment leaks from each equipment component that is part of the affected source specified in 40 CFR 63.680(c)(3) of this subpart by implementing leak detection and control measures in accordance with the standards specified in 40 CFR 63.691. [40 CFR 63.683(d)]	None.	None.	None.
15	The provisions of 40 CFR part 63, subpart A—General Provisions that apply and those that do not apply are specified in Table 2 of 40 CFR 63 Subpart DD. [40 CFR 63.680(f)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**

Operating Scenario: **OS3002 SET: LIME UNLOADING OPERATIONS, TS-27 VENTING TO TE-27, OS3004 SET: LIME UNLOADING OPERATIONS, TS-28 VENTING TO TE-28, OS3006 SET: LIME UNLOADING OPERATIONS, TS-29 VENTING TO TE-29, OS3008 SET: LIME UNLOADING OPERATIONS, TS-30 VENTING TO TE-30**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.064 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.064 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Non-HAP Particulate <= 60,000 lbs/batch. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Non-HAP Particulate <= 90 MM lb/year. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the monthly and year to date throughput. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**

Operating Scenario: **OS3019 SET: SLUDGE SLURRY HOLDING TANK TS-71A, OS3020 SET: SLUDGE SLURRY HOLDING TANK TS-71B, OS3021 SET: SLUDGE SLURRY HODLING TANK TS-71C**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.36 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Benzene, chloroform, methyl chloride, tetrachloroethylene, nitrobenzene, MIBK and methylene chloride (dichlomethane) emissions, are below reporting thresholds. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.
3	Maximum annual throughput: 1,681,920 tons per year. [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 continuously. [N.J.A.C. 7:27-22.16(o)]	None.
4	Total Production Rate <= 800 gal/min. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain production records.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**
Operating Scenario: **OS3025 SET: CARBON UNLOADING SYSTEM CP-131**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Non-HAP Particulate <= 14,000 lbs/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain production records.[N.J.A.C. 7:27-22.16(o)].	None.
4	Maximum annual throughput <= 14,000 tons/year. [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 continuously. [None]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**
Operating Scenario: **OS3027 SET: RE-26 MIXING OF LIME AND WATER**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Non-HAP Particulate <= 120 MM lb/year (dry). [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain production records.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**
Operating Scenario: **OS3031 SET: HCL/FERRIC CHLORIDE STORAGE TS-126B**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.046 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.046 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	The annual throughput shall not exceed 325,000 gal/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by bills of lading per delivery.[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. The permittee shall record the monthly and year to date throughput. [N.J.A.C. 7:27-22.16(o)]	None.
4	Raw material is limited to hydrochloric acid and ferric chloride (10 - 40% by wt.) [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**
Operating Scenario: **OS3032 SET: H3PO4 STORAGE TS-126A**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The annual throughput shall not exceed 96,000 gal/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by bills of lading per delivery.[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. The permittee shall record the monthly and year to date throughput. [N.J.A.C. 7:27-22.16(o)]	None.
2	Raw material is limited to phosphoric acid (60 - 80% by wt.) [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**

Operating Scenario: **OS3101 SET: WWTP, PUMP PIT, OS3102 SET: WWTP, PRIMARY WW SUMP, OS3112 SET: WWTP - PRIMARY STILLING WELL PT-231, OS3118 SET: WWTP - SECONDARY CLARIFIER FLOW SPLITTER GT-161, OS3119 SET: WWTP - SECONDARY CLARIFIER CF-161, OS3120 SET: WWTP - SECONDARY CLARIFIER CF-162, OS3121 SET: WWTP A/B RAS SCREW PUMPS P-185, OS3129 SET: WW TREATMENT SECONDARY CLARIFIER CF-163, OS3133 SET: FLOW SPLITTER GT-312**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Benzene, chloroform, methyl chloride, tetrachloroethylene, nitrobenzene, MIBK and methylene chloride (dichlomethane) emissions, are below reporting thresholds. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**
Operating Scenario: **OS3103 SET: WWTP - PRIMARY FLOW SPLITTER GT-49**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Benzene <= 0.48 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.
3	Chloroform, methyl chloride, tetrachloroethylene, nitrobenzene, MIBK and methylene chloride (dichlomethane) emissions, are below reporting thresholds. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**

Operating Scenario: **OS3108 SET: WWTP - PRIMARY CLARIFIER CF-61, OS3109 SET: WWTP - PRIMARY CLARIFIER CF-62, OS3110 SET: WWTP - PRIMARY CLARIFIER CF-63, OS3111 SET: WWTP - PRIMARY CLARIFIER CF-64**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Benzene <= 0.56 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.
3	Chloroform <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.
4	Methyl isobutyl ketone <= 3.0 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.
5	Nitrobenzene <= 0.78 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.
6	Methyl chloride, tetrachloroethylene, and methylene chloride (dichlomethane) emissions, are below reporting thresholds. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**

Operating Scenario: **OS3115 SET: WWTP - SECONDARY AERATION AE-151, OS3116 SET: WWTP - SECONDARY AERATION AE-152, OS3117 SET: WWTP - SECONDARY AERATION AE-153**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Benzene <= 0.41 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.
3	Chloroform <= 0.53 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.
4	Methyl chloride <= 2.28 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.
5	Tetrachloroethylene <= 0.22 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.
6	Nitrobenzene, MIBK and methylene chloride (dichlomethane) emissions, are below reporting thresholds. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**
Operating Scenario: **OS3122 SET: SURGE TANK TS-500, OS3123 SET: SURGE TANK TS-501, OS3124 SET: SURGE TANK TS-502**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The VOC emitted from the tank does not exceed a concentration of 5,000 parts per million by volume measured at any point above the liquid surface at the height of the tank lip. [N.J.A.C. 7:27-16.6(b)3]	Other: Monitored by tank vapor analysis each quarter during operation. Permittee shall sample the tank vapor at the height of the tank lip.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. [N.J.A.C. 7:27-22.16(o)]	None.
2	VOC (Total) <= 3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Benzene, chloroform, methyl chloride, tetrachloroethylene, nitrobenzene, MIBK and methylene chloride (dichlomethane) emissions, are below reporting thresholds. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions calculations from actual wastewater analysis, process flows and conditions performed monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**

Operating Scenario: **OS3125 SET: WW NEUTRALIZATION NE-41, OS3126 SET: WW NEUTRALIZATION NE-42, OS3127 SET: WW NEUTRALIZATION NE-43**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Benzene, chloroform, methyl chloride, tetrachloroethylene, nitrobenzene, MIBK and methylene chloride (dichlomethane) emissions, are below reporting thresholds. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**

Operating Scenario: **OS3130 SET: WW TREATMENT TERTIARY AERATION TANK AE-251, OS3131 SET: WW TREATMENT TERTIARY CLARIFIER CF-261, OS3132 SET: WW TREATMENT TERTIARY CLARIFIER CF-262**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.88 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Benzene, chloroform, methyl chloride, tetrachloroethylene, nitrobenzene, MIBK and methylene chloride (dichlomethane) emissions, are below reporting thresholds. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a documented sample plan and TOXCHEM+ model emissions predicted from actual process flows, conditions and wastewater analysis monthly.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain influent analyses and TOXCHEM+ results.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**
Operating Scenario: **OS3134 SET: DEWATERING PAD DW-1**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1 lb/hr. [N.J.A.C. 7:27-16]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**

Operating Scenario: **OS3230 Diffuser Head Tank With Two Vents: Head Tank Vent PT3230 + Head Tank Discharge Line Vent PT3231**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.55 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3000 SECURE ENVIRONMENTAL TREATMENT**
Operating Scenario: **OS3250 LANDFILL LEACHATE COLLECTION TANK (TC-504)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Design Flowrate <= 220 gal/min. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3501 Three Temporary Generators**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall notify the Department prior to bringing the temporary equipment onsite. [N.J.A.C. 7:27-22.16(a)]	None.	None.	Submit notification: Prior to occurrence of event. Submit notification to: Enforcement Southern Regional Office at One Port Center, 2 Riverside Drive, Suite 201, Camden, NJ 08103. [N.J.A.C. 7:27-22.16(o)]
2	The owner of the subject equipment must obtain and maintain an approved Preconstruction Permit, issued pursuant to N.J.A.C. 7:27-8, prior to bringing the subject equipment to operate at the major facility. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hours of Operation <= 432 hr/yr for all pieces of equipment combined. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. Each piece of equipment shall be equipped with non-resettable hour meter. [N.J.A.C. 7:27-22.16(o)]	Other: Permittee shall maintain the following for piece of equipment: 1) The Serial number. 2) Date the equipment was brought on-site. 3) Date the equipment was removed from site. 4) Actual hour/time monitor readings and the actual hours the equipment was operated at the facility.[N.J.A.C. 7:27-22.16(o)].	None.
4	Sulfur content in Fuel less than or equal to 500 ppm effective from 7/1/14 to 6/30/16. Sulfur content in Fuel less than or equal to 15 ppm from 7/1/16 onwards. [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 and date of storage. [N.J.A.C. 7:27-22.16(o)]	None.
5	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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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Opacity <= 20 % , exclusive of condensed water vapor, except for a period not longer than 10 seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
7	Maximum Gross Heat Input <= 5.1 MMBTU/hr (HHV) for each piece of equipment. [N.J.A.C. 7:27-22.16(a)]	Other: : Manufacturer's rated heat capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
8	Particulate emissions <= 3.0 lb/hr for each piece of equipment. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	NOx (Total) <= 4.49 tons/yr for all equipment. (20.8 lb/hr for each piece of equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 0.967 tons/yr for all equipment. (4.48 lb/hr for each piece of equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	VOC (Total) <= 0.358 tons/yr for all equipment. (1.66 lb/hr for each piece of equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO2 <= 0.297 tons/yr for all equipment. (1.37 lb/hr for each piece of equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 0.318 tons/yr for all equipment. (1.48 lb/hr for each piece of equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-10 (Total) <= 0.318 tons/yr for all equipment. (1.48 lb/hr for each piece of equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3502 Three Temporary Pumps**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall notify the Department prior to bringing the temporary equipment onsite. [N.J.A.C. 7:27-22.16(a)]	None.	None.	Submit notification: Prior to occurrence of event. Submit notification to: Enforcement Southern Regional Office at One Port Center, 2 Riverside Drive, Suite 201, Camden, NJ 08103. [N.J.A.C. 7:27-22.16(o)]
2	The owner of the subject equipment must obtain and maintain an approved Preconstruction Permit, issued pursuant to N.J.A.C. 7:27-8, prior to bringing the subject equipment to operate at the major facility. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hours of Operation <= 1,056 hr/yr for all pieces of equipment combined. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. Each piece of equipment shall be equipped with non-resettable hour meter. [N.J.A.C. 7:27-22.16(o)]	Other: Permittee shall maintain the following for piece of equipment: 1) The Serial number. 2) Date the equipment was brought on-site. 3) Date the equipment was removed from site. 4) Actual hour/time monitor readings and the actual hours the equipment was operated at the facility.[N.J.A.C. 7:27-22.16(o)].	None.
4	Sulfur content in Fuel less than or equal to 500 ppm effective from 7/1/14 to 6/30/16. Sulfur content in Fuel less than or equal to 15 ppm from 7/1/16 onwards. [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 and date of storage. [N.J.A.C. 7:27-22.16(o)]	None.
5	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Opacity <= 20 % , exclusive of condensed water vapor, except for a period not longer than 10 seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
7	Maximum Gross Heat Input <= 2.1 MMBTU/hr (HHV) for each piece of equipment. [N.J.A.C. 7:27-22.16(a)]	Other: : Manufacturer's rated heat capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
8	Particulate emissions <= 1.2 lb/hr for each piece of equipment. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	NOx (Total) <= 4.5 tons/yr for all equipment. (8.5 lb/hr for each piece of equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 0.97 tons/yr for all equipment. (1.8 lb/hr for each piece of equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	VOC (Total) <= 0.36 tons/yr for all equipment. (0.68 lb/hr for each piece of equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO2 <= 0.3 tons/yr for all equipment. (0.56 lb/hr for each piece of equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 0.32 tons/yr for all equipment. (0.61 lb/hr for each piece of equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-10 (Total) <= 0.32 tons/yr for all equipment. (0.61 lb/hr for each piece of equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3700 Gasoline Dispensing facility**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	U3700 is a Gasoline Dispensing Facility (GDF). A GDF is a stationary facility that dispenses gasoline into the fuel tanks of a motor vehicles, and not into gasoline delivery vessels. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Tank contents limited to unleaded gasoline. [N.J.A.C. 7:27-22.16(a)]	Other: Review invoices / bills of lading / certificate of analysis for each delivery.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by invoices / bills of lading / certificate of analysis per delivery. [N.J.A.C. 7:27-22.16(o)]	None.
3	Maximum throughput at this gasoline dispensing facility <= 160,169 gallons per year. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the date of each delivery and the quantity received.[N.J.A.C. 7:27-22.16(o)].	Other: Keep records (invoices / bills of lading) showing gallons and dates gasoline was received. [N.J.A.C. 7:27-22.16(o)]. Record the monthly throughput of gasoline.[N.J.A.C. 7:27-16.3(t)1].	None.
4	VOC (Total) <= 0.12 tons/yr , based on a maximum gasoline throughput of 160,169 gallons in any consecutive 12-month period. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually Calculations shall be made using EPA's AP-42 Tanks 4.0 or equivalent. [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 annually Keep copies of emission calculations. [N.J.A.C. 7:27-22.16(o)]	None.
5	Gasoline transfers into the tank shall be made through a submerged fill pipe permanently affixed to the tank. [N.J.A.C. 7:27-16.3(c)1i]	None.	None.	None.
6	The tank shall be equipped with and operating a Stage I vapor recovery system (VRS) that reduces the VOC emissions by >= 98 vol. % during gasoline transfer. [N.J.A.C. 7:27-16.3(d)1]	Other: When requested by the Department, the permittee shall demonstrate the efficiency of the VRS in accordance with test procedures or documentation approved by the Department.[N.J.A.C. 7:27-16.3(j)10].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-16.o]	Conduct a performance test: Other (when requested by the Department). [N.J.A.C. 7:27-16.3(j)10]
7	The tank shall be equipped with a pressure/vacuum relief vent valve on each atmospheric vent; [N.J.A.C. 7:27-16.3(d)2]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The tank shall be equipped with and operating a CARB-certified Stage I enhanced vapor recovery system (EVRS) pressure/vacuum relief vent valve. [N.J.A.C. 7:27-16.3(d)3]	None.	None.	None.
9	The tank shall be equipped with and operating a CARB-certified Stage I EVRS, including a dual point vapor balance system on or before December 23, 2024. [N.J.A.C. 7:27-16.3(d)4]. A Stage I EVRS that is using a single-point vapor balance system installed before December 23, 2017, is not required to replace the single-point vapor balance system with a dual-point vapor balance system. [N.J.A.C. 7:27-16.3(d)4i]	None.	None.	None.
10	The owner or operator of a gasoline dispensing facility shall ensure that the operation complies with each of the applicable requirements at N.J.A.C.7:27-16.3(g)1 through (g)4. [N.J.A.C. 7:27-16.3(g)]	None.	None.	None.
11	Conduct all the applicable tests, using the specified test methods and testing schedule specified in Table 3A of N.J.A.C.7:27-16.3(j). [N.J.A.C.7:27-16.3(j)] A VRS or equipment shall have passed a test if it meets the applicable performance standards and specifications that are set forth in CARB's Vapor Recovery Certification Procedures and/or Test Procedures, including all subsequent revisions thereto, which are available at CARB's website https://www.arb.ca.gov/vapor/vapor.htm [N.J.A.C. 7:27-16.3(j)5]	Other: Conduct all the applicable tests specified in Table 3A of N.J.A.C.7:27-16.3(j).[N.J.A.C. 7:27-16.3(j)1].	Other: On the day of the test, any corrective action, repairs, or equipment replacement made to the VRS shall be recorded with the test results on the documentation of the test results. [N.J.A.C.7:27-16.3(j)4] Maintain records of the performance tests, and the results obtained, in accordance with N.J.A.C.7:27-16.3(t)2. [N.J.A.C. 7:27-16.3(j)8].	Conduct a performance test: As per the approved schedule. At least 14 days prior to performing any tests, notify the Department by e-mail. [N.J.A.C.7:27-16.3(j)3] If the VRS or the equipment fails any test, the permittee shall proceed as specified at N.J.A.C.7:27-16.3(j)6. [N.J.A.C.7:27-16.3(j)6] If the VRS or the equipment fails any retest, the permittee shall proceed as specified at N.J.A.C.7:27-16.3(j)7. [N.J.A.C. 7:27-16.3(j)7]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	No person shall permit a transfer of gasoline from a delivery vessel if the delivery vessel being unloaded is under a vacuum in excess of six inches of water gauge. [N.J.A.C. 7:27-16.3(l)]	Other: Monitor the delivery vessel pressure / vacuum gauges prior to each gasoline transfer.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain accurate records of each gasoline transfer.[N.J.A.C. 7:27-22.16(o)].	None.
13	Do not transfer gasoline from a delivery vessel if any of the gasoline spill conditions specified at N.J.A.C.7:27-16.3(p)1 through (p)3 are present. [N.J.A.C. 7:27-16.3(p)]	Other: Monitored by visual inspection prior to each gasoline transfer.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain accurate records for each gasoline transfer.[N.J.A.C. 7:27-22.16(o)].	None.
14	Do not transfer gasoline from a delivery vessel unless the vapor control system is in compliance with all the specifications at N.J.A.C.7:27-16.3(r)1 through (r)5. [N.J.A.C. 7:27-16.3(r)]	Other: Monitored by visual inspection prior to each gasoline transfer.[N.J.A.C. 7:27-22.16(o)].	Other: Keep all maintenance and design records associated with the vapor control system. Maintain accurate records for each gasoline transfer.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Opacity: 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 OS5507,OS5508, OS5512, OS5513, and OS5528. [N.J.A.C. 7:27- 6]	None.	None.	None.
3	There shall be no visible emissions exclusive of condensed water vapors. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once per calendar day during operation, based on an instantaneous determination. Monitoring requirement applies to PT5503, PT5507 & PT5516 only. [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 PT5503, PT5507 & PT5516. The permittee shall record the date, 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.
4	VOC (Total): The owner or operator shall comply with the applicable standards for the emissions of VOC as required in N.J.A.C. 7:27-16.16. Applies to OS5501 through OS5506, OS5509, OS5510, and OS5523 through OS5529. [N.J.A.C. 7:27-16.16] and [N.J.A.C. 7:27-16.22(a)]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements for other source operations as required in N.J.A.C. 7:27-16.16.[N.J.A.C. 7:27-16.16].	Other: The owner or operator shall comply, as applicable with the recordkeeping requirements for other source operations as required in N.J.A.C. 7:27-16.16 [N.J.A.C. 7:27-16.16] and[N.J.A.C. 7:27-16.22(a)].	None.
5	VOC (Total) <= 63.77 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) < 0.05 lb/hr. Applies to OS5507, OS5508, OS5512, OS5513, and OS5528. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP < 0.05 lb/hr. Applies to OS5507, OS5508, OS5512, OS5513, and OS5528. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	VOC (Total) <= 15.12 lb/hr. Maximum combined emission rate applies to OS5523 through OS5529 for all sources. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs simultaneously at emission points PT5514, PT5515 (SK-3) and PT5516 (SK-402). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
9	Scrubbing Medium Flow Rate >= 1 gal/min when Scrubber CD5501 (SB-305) is operating and venting to atmosphere. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously when scrubber is operating during venting. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. [N.J.A.C. 7:27-22.16(o)]	None.
10	Pressure Drop >= 0.6 and Pressure Drop <= 6 inches w.c. for CD5505 (Aero Bag) when pellet dryer D-273 (E5512) is operating. . [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously when pellet dryer D-273 (E5512) is operating. [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 once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
11	CD5502 (F-165) and CD5503 (F-166): The owner or operator shall inspect the discharge of the baghouse for broken or torn filter bags. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once every 2 weeks, 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. The permittee shall record the date and result of inspection and date of filter replacement. [N.J.A.C. 7:27-22.16(o)]	None.
12	Contaminant Side Outlet Temperature <= 68 degrees F. The condenser outlet temperature is required to be monitored only when the condenser is venting to atmosphere [PT5514 (SK-274)]. Temperature monitoring is not required when valve to PT5514 is closed and the condenser is not venting to atmosphere. Applies to CD5506 (SK-274 C-277). [N.J.A.C. 7:27-22.16(a)]	Contaminant Side Outlet Temperature: Monitored by temperature instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Contaminant Side Outlet Temperature: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
13	Pressure Drop <= 5 inches w.c. Applies to CD5507 (F-402). [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by data acquisition system (DAS) / electronic data storage once per calendar day during operation. Manual logging of parameter is also acceptable. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Raw Material/Air Contaminant List: limited to Non-HAP VOC emitting compounds that are not HAPs as defined at 40 CFR 63.1(a)(2), and Hydrochloric Acid. [N.J.A.C. 7:27-22.16(a)]	Other: Maintain production records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintaining production records showing raw materials/air contaminants.[N.J.A.C. 7:27-22.16(o)].	None.
15	Total Production Rate <= 2,400 lb/hr. Applies to OS5507 and OS5508. [N.J.A.C. 7:27-22.16(a)]	Other: Maintain production records.[N.J.A.C. 7:27-22.16(o)].	Total Production Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per shift during operation. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. [N.J.A.C. 7:27-22.16(o)]	None.
16	Building 745: Annual raw material throughput (gas monomer) shall not exceed 7446 tons/yr combined. Applies to OS5523-OS5528. [N.J.A.C. 7:27-22.16(a)]	Other: Maintain production records.[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 lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. The permittee shall record the monthly and year to date production during equipment operation. [N.J.A.C. 7:27-22.16(o)]	None.
17	Building 745: Maximum raw material feed rate (gas monomer) <= 1700 lb/hr combined. Applies to OS5523-OS5528. [N.J.A.C. 7:27-22.16(a)]	Other: Maintain production records.[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 shift during operation. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Conduct a comprehensive stack test simultaneously at emission points PT5514, PT5515 (SK-3) and PT5516 (SK-402) at least 18 months prior to the expiration of the approved operating permit to demonstrate compliance with the VOC emission limits. Test shall be conducted for OS5523 thru OS5529 during normal operation for all sources running at maximum load. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]	Monitored by stack emission testing prior to permit expiration date. Unless otherwise approved in the stack test protocol or by the Department, each test run shall be 60 minutes in sampling duration. Stack test shall be conducted for VOC emissions. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Bureau of Technical Services (BTS) at PO Box 437, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. Within 30 days of protocol approval, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date. The stack test required during the first permit term shall be conducted by August 21, 2009. A full stack test report must be submitted to BTS and a certified summary test report, as described in the protocol, 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 a certified industrial hygienist. A copy of the certified summary test results must be submitted with the operating permit renewal application due at least 12 months prior to expiration of the Operating Permit. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**
Operating Scenario: **OS5501 ELASTOMERS-BLDG 745: SEPARATOR: SP-326**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.82 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 month average. [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 each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
2	Total Production Rate <= 9,100 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records.[N.J.A.C. 7:27-22.16(o)].	Total Production Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per shift during operation. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 14,560 lb/yr. [N.J.A.C. 7:27-22.16(a)]	Other: By production records on a monthly basis. [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 each month during operation. Record monthly amount and year-to-date amount. . [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**

Operating Scenario: **OS5502 ELASTOMERS-BLDG 745: DRYER D-344, OS5503 ELASTOMERS-BLDG 745: DRYER D-345**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 15.4 lb per regeneration event. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Number of regeneration events per year <= 8. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the number of regeneration events.[N.J.A.C. 7:27-22.16(o)].	Other: Record the date and duration of each regeneration event.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**

Operating Scenario: **OS5504 ELASTOMERS-BLDG 745: TFE/HCL AZEOTROPE UNLOADING COMPRESSOR VENT CP-301 WITH DISTANCE PIECE**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.19 lb per compressor purging event. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Number of compressor purging events per year <= 80. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the number of compressor purging events.[N.J.A.C. 7:27-22.16(o)].	Other: Record the date and duration of each compressor purging event.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC sweep to compressor seals during operation <= 0.3 lb/min (18 lb/hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Compressor operation <= 675 hrs per calendar yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. Record the date and the number of hours the compressor was operated. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**

Operating Scenario: **OS5505 ELASTOMERS-BLDG 745: TFE/HCL AZEOTROPE TANK TRAILER UNLOADING LINES AND TFE LOADING LINES**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.24 lb per line purging event. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Number of line purging events per calendar year <= 150. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the number of line purging events.[N.J.A.C. 7:27-22.16(o)].	Other: Record the date and duration of each line purging event.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**
Operating Scenario: **OS5506 ELASTOMERS-BLDG 745: DEINVENTORY OF TFE/HCL AZEOTROPE TANK**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr while performing deinventory or while refilling tank TS-305. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Purge Rate <= 6.04 lb/hr while performing deinventory of tank. [N.J.A.C. 7:27-22.16(a)]	Other: Maintain production records.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter once per batch during operation in either a logbook or readily accessible computer memories. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. [N.J.A.C. 7:27-22.16(o)]	None.
3	Maximum amount of throughput <= 940 lbs of Azeotrope, while performing deinventory of tank TS-305 for TCPA compliance based on one occurrence per year. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring by the weight of azeotrope remaining in the tank. The permittee shall calculate the amount of azeotrope left in the tank using Peng-Robinson equation to perform the calculation prior to each deinventory event. The permittee also shall calculate the minimum duration of the deinventory event by dividing the weight of the tank heal by the purge rate (6.04 lb/hr).[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manual logging of parameter, in either a logbook or readily accessible computer memories. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. The permittee shall record the weight of azeotrope remaining in the tank and the duration of the deinventory event.[N.J.A.C. 7:27-22.16(o)].	None.
4	Minimum hours of operation >= 6.62 hr/yr while performing refilling tank TS-305 after TCPA maintenancet. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual logging of parameter, in either a logbook or readily accessible computer memories. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. The permittee shall record the monthly and year to date hours of operation.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**
Operating Scenario: **OS5507 ELASTOMERS-BLDG 745: PELLET CONVEYING SYSTEM BL-166**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CD5502 particulate control efficiency >= 99% [N.J.A.C. 7:27-22.16(a)]	Monitored by the Department approved testing method upon request of the Department. [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.
2	CD5502: The owner or operator shall inspect the discharge of the baghouse for broken or torn filter bags. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once every 2 weeks, 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. The permittee shall record the date and result of inspection and date of filter replacement. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**
Operating Scenario: **OS5509 ELASTOMERS-BLDG 745: FEED TANK TF-271**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.28 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Total Production Rate <= 983.3 lb/hr when charging Isopropanol. [N.J.A.C. 7:27-22.16(a)]	Other: Maintain production records.[N.J.A.C. 7:27-22.16(o)].	Total Production Rate: Recordkeeping by manual logging of parameter once per batch during operation in either a logbook or readily accessible computer memories. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. [N.J.A.C. 7:27-22.16(o)]	None.
3	Total Production Rate <= 880 lb/hr when charging 4-Bromo-3,3,4,4-Tetrafluorobutene or 4-Iodo-3,3,4,4-Tetrafluorobutene. [N.J.A.C. 7:27-22.16(a)]	Other: Maintain production records.[N.J.A.C. 7:27-22.16(o)].	Total Production Rate: Recordkeeping by manual logging of parameter once per batch during operation in either a logbook or readily accessible computer memories. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. [N.J.A.C. 7:27-22.16(o)]	None.
4	Hours of Operation <= 960 hr/yr when charging Isopropanol. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously when operating. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual logging of parameter, in either a logbook or readily accessible computer memories. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. The permittee shall record the monthly and year to date hours of operation.[N.J.A.C. 7:27-22.16(o)].	None.
5	Hours of Operation <= 576 hr/yr when charging 4-Bromo-3,3,4,4-Tetrafluorobutene or 4-Iodo-3,3,4,4-Tetrafluorobutene. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously when operating. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual logging of parameter, in either a logbook or readily accessible computer memories. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. The permittee shall record the monthly and year to date hours of operation.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**
Operating Scenario: **OS5510 ELASTOMERS-BLDG 745: VF2 TANK TRAILER UNLOADING LINES**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.62 lb per unloading event. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Number of unloading events per calendar year <= 300. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the number of unloading events.[N.J.A.C. 7:27-22.16(o)].	Other: Receord the date and duration of each unloading event.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**
Operating Scenario: **OS5512 ELASTOMERS-BLDG 745: DRYER D-273**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Production Rate <= 2,564 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Maintain production records.[N.J.A.C. 7:27-22.16(o)].	Total Production Rate: Recordkeeping by manual logging of parameter once per batch during operation in either a logbook or readily accessible computer memories. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**
Operating Scenario: **OS5513 ELASTOMERS-BLDG 745: TG-275 BARIUM SULFATE ADDITION**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Production Rate <= 1,100 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Maintain production records.[N.J.A.C. 7:27-22.16(o)].	Total Production Rate: Recordkeeping by manual logging of parameter once per batch during operation in either a logbook or readily accessible computer memories. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. [N.J.A.C. 7:27-22.16(o)]	None.
2	Hours of Operation <= 1,200 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously when operating. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual logging of parameter, in either a logbook or readily accessible computer memories. In lieu of manual logging, data acquisition system (DAS) / continuous electronic data storage is acceptable. The permittee shall record the monthly and year to date hours of operation.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**
Operating Scenario: **OS5550 TFE/CO2 SEPARATOR**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The TFE/CO2 scrubber (E5550) shall be limited to twelve shutdown / venting events per calendar year. (TFE/CO2 emissions occur only during venting of the scrubber). [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records.[N.J.A.C. 7:27-22.16(o)].	Other: Permittee shall record the date and duration of each shutdown / venting event.[N.J.A.C. 7:27-22.16(o)].	None.
2	Tetrafluoroethylene emissions during scrubber venting <= 1.5 tons per year. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5500 Fluoroelastomers**
Operating Scenario: **OS5551 CAUSTIC/TFE DISENGAGEMENT**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tetrafluoroethylene emissions <= 0.6 lb/hr (2 tons per year). [N.J.A.C. 7:27-22.16(a)]	Other: Calculate emissions once each week during operation, based upon monitored temperature and pressure and the documented TFE solubility.[N.J.A.C. 7:27-22.16(o)].	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.
2	Carbon Dioxide <= 0.25 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U9000 One Temporary Pump (Clemente's Pond Pump)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall notify the Department prior to bringing the temporary equipment onsite. [N.J.A.C. 7:27-22.16(a)]	None.	None.	Submit notification: Prior to occurrence of event. Submit notification to: Enforcement Southern Regional Office at One Port Center, 2 Riverside Drive, Suite 201, Camden, NJ 08103. [N.J.A.C. 7:27-22.16(o)]
2	The owner of the subject equipment must obtain and maintain an approved Preconstruction Permit, issued pursuant to N.J.A.C. 7:27-8, prior to bringing the subject equipment to operate at the major facility. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hours of Operation <= 840 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. Each piece of equipment shall be equipped with non-resettable hour meter. [N.J.A.C. 7:27-22.16(o)]	Other: Permittee shall maintain the following for piece of equipment: 1) The Serial number. 2) Date the equipment was brought on-site. 3) Date the equipment was removed from site. 4) Actual hour/time monitor readings and the actual hours the equipment was operated at the facility.[N.J.A.C. 7:27-22.16(o)].	None.
4	Sulfur content in Fuel less than or equal to 500 ppm until 6/30/16. Sulfur content in Fuel less than or equal to 15 ppm from 7/1/16 onwards. [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 and date of storage. [N.J.A.C. 7:27-22.16(o)]	None.
5	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Opacity <= 20 % , exclusive of condensed water vapor, except for a period not longer than 10 seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
7	Maximum Gross Heat Input <= 1.1 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: : Manufacturer's rated heat capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
8	Particulate emissions <= 0.66 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	NOx (Total) <= 0.38 tons/yr (0.9 lb/hr) based on an emission factor of 3.5 g/kW-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 0.17 tons/yr (0.41 lb/hr) based on an emission factor of 1.6 g/kW-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	VOC (Total) <= 0.38 tons/yr (0.9 lb/hr) based on an emission factor of 3.5 g/kW-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO2 <= 0.13 tons/yr (0.32 lb/hr) based on an emission factor of 0.00205 lb/hp-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 0.02 tons/yr (0.05 lb/hr) based on an emission factor of 0.2 g/kW-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-10 (Total) <= 0.02 tons/yr (0.05 lb/hr) based on an emission factor of 0.2 g/kW-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U10000 Non-Emergency Generators**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur content in Fuel less than or equal to 500 ppm effective from 7/1/14 to 6/30/16. Sulfur content in Fuel less than or equal to 15 ppm from 7/1/16 onwards. [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 and date of storage. [N.J.A.C. 7:27-22.16(o)]	None.
2	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.
3	Hours of Operation <= 2,000 hr/yr total for both generators combined. [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). Each generator shall be equipped with a non-resettable hour meter. [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. Hours of operation during a consecutive 12 month period shall be calculated by adding hours of operation during any one month to the sum of hours of operation during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
4	VOC (Total) <= 0.2 tons/yr. Annual emission limit based on 2000 hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 2.49 tons/yr. Annual emission limit based on 2000 hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 0.54 tons/yr. Annual emission limit based on 2000 hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO2 <= 0.17 tons/yr. Annual emission limit based on 2000 hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	TSP <= 0.18 tons/yr. Annual emission limit based on 2000 hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 0.18 tons/yr. Annual emission limit based on 2000 hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	An existing stationary CI RICE (constructed or reconstructed before June 12, 2006) with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, must comply with the applicable emission limitations and operating limitations in 40 CFR 63 Subpart ZZZZ no later than May 3, 2013. [40 CFR 63.6595(a)(1)]	None.	None.	None.
11	For a non-Emergency, non-black start stationary CI RICE <100 HP: Change oil and filter every 1,000 hours of operation or annually, whichever comes first. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63.6602]	None.	Other: Maintenance records must be readily available for expeditious review and kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.[40 CFR 63.6600].	None.
12	The owner / operator must be in compliance with the emission limitations and operating limitations at all times. [40 CFR 63.6605(a)]	None.	Other: Keep the records required in 40 CFR 63 Subpart ZZZZ Table 6 to show continuous compliance with each applicable emission or operating limitation.[40 CFR 63.6655(d)].	None.
13	The owner / operator must operate and maintain any affected source, 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.	Other: Keep the records required in 40 CFR 63 Subpart ZZZZ Table 6 to show continuous compliance with each applicable emission or operating limitation.[40 CFR 63.6655(d)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	The permittee must operate and maintain the stationary RICE according to the manufacturer's written instructions or 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)]	None.	Other: Keep records of the maintenance conducted in order to demonstrate that the stationary RICE and after-treatment control device (if any) was operated and maintained according to the facility-devised maintenance plan.[40 CFR 63.6655(e)].	None.
15	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 after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply. [40 CFR 63.6625(h)]	Other: Monitor each start-up.[N.J.A.C. 7:27-22.16(o)].	Other: Record each engine start-up and the time spent at "idle" during each start-up.[N.J.A.C. 7:27-22.16(o)].	None.
16	The owner or operator of a CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 has the option of utilizing an oil analysis program to extend the specified oil change requirements in Table 2 c to 40 CFR 63 Subpart ZZZZ. The oil analysis program must operate as specified in [40 CFR 63.6625(i)]	Other: Monitored by analysis of the oil as specified in[40 CFR 63.6625(i)].	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 parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. [40 CFR 63.6625(i)]	None.
17	The owner/operator must demonstrate continuous compliance with each applicable emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ according to methods specified in Table 6 to 40 CFR 63 subpart ZZZZ. [40 CFR 63.6640(a)]	Other: The owner/operator must follow the manufacturer's emission-related operation and maintenance instructions, or the inhouse maintenance plan developed to maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.[40 CFR 63.6640(a)].	Other: Record each deviation [40 CFR 63.6640(b) and[40 CFR 63.6655].	Submit a report: Other. The owner/operator must report each instance in which the RICE did not meet applicable each emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ. Report deviations according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]
18	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 CI RICE <= 500 HP or black start RICE constructed or reconstructed before June 12, 2006 and located at a major source of HAP. [40 CFR 63.6665]	None.	None.	Submit a report: Other. The owner/operator must report each instance in which the RICE did not meet the requirements in Table 8 to 40 CFR 63 Subpart ZZZZ. [40 CFR 63.6640(e)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	No owner or operator subject to the provisions of this part must operate any affected source in violation of the requirements of this part or fail to keep records, notify, report, or revise reports as required under this part. [40 CFR 63.4(a)]	None.	None.	None.
20	No owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. [40 CFR 63.4(b)]	None.	None.	None.
21	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. [40 CFR 63.4(c)]	None.	None.	None.
22	At all times, including periods of startup, shutdown, and malfunction, the owner or operator must operate and maintain any affected source, 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 63.6(e)(1)(i)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	The Administrator will determine compliance with nonopacity emission standards in this part based on the results of performance tests conducted according to the procedures in 40 CFR 63.7, and by evaluation of an owner or operator's conformance with operation and maintenance requirements, including the evaluation of monitoring data, as specified in 40 CFR 63.6(e) and applicable subparts of this part. [40 CFR 63.6(f)(2)(i)] and [40 CFR 63.6(f)(2)(ii)]	None.	None.	None.
24	The Administrator will determine compliance with design, equipment, work practice, or operational emission standards in this part by review of records, inspection of the source, and will determine compliance with design, equipment, work practice, or operational emission standards in this part by evaluation of an owner or operator's conformance with operation and maintenance requirements, as specified in paragraph (e) of this section. [40 CFR 63.6(f)(2)(iv)] and [40 CFR 63.6(f)(2)(v)]	None.	None.	None.
25	Monitoring shall be conducted as set forth in this section unless otherwise specified by the Administrator. [40 CFR 63.8(b)(1)]	None.	None.	None.
26	The owner or operator of a title V source shall comply with all requirements for compliance status reports contained in the source's title V permit, including reports required under this part. Each time a notification of compliance status is required under this part, the permittee shall submit the notification of compliance status to the appropriate permitting authority following completion of the relevant compliance demonstration activity specified in the relevant standard. [40 CFR 63.9(h)(3)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	The permittee shall submit all information to the Regional Enforcement Office of NJDEP and to the Director, Air and Waste Management Division, 26 Federal Plaza, New York, NY 10278. [40 CFR 63.10(a)(4)(ii)]	None.	None.	None.
28	The permittee shall maintain files of all information (including all reports and notifications) recorded in a form available for expeditious inspection and review. Files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. [40 CFR 63.10(b)(1)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U10000 Non-Emergency Generators**
Operating Scenario: **OS10001 Sitewide Non-Emergency 60 kW Generator, OS10002 Sitewide Non-Emergency 60 kW Generator**

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	Maximum Gross Heat Input <= 0.57 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
3	Maximum Rated Power Output <= 60 Kilowatts (80.5 bhp). [N.J.A.C. 7:27-22.16(a)]	Other: Engine rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
4	Fuel limited to diesel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Particulate Emissions <= 0.3 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
6	CO <= 0.54 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 2.49 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.18 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.17 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	TSP <= 0.18 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	VOC (Total) <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	The permittee shall adjust the engine's combustion process according to manufacturer's recommended procedures and maintenance schedule. [N.J.A.C. 7:27-19.8(f)] and [N.J.A.C. 7:27-19.16(g)]	Monitored by periodic emission monitoring at the approved frequency according to manufacturer's recommended maintenance schedule. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record: 1. The date, start time and end time of the adjustment; 2. The name, title, and affiliation of the person performing the adjustment; 3. The type of procedure and maintenance performed; 4. The NOx, CO and O2, measured before and after the adjustment; and 5. The amount of fuel used in the last 12 months. [N.J.A.C. 7:27-19.16(h)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U11000 323 bhp Tier 3 Fire Pumps**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.013 tons/yr (total for all 3 fire pumps, based on 100 hours per year testing and maintenance). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 0.235 tons/yr (total for all 3 fire pumps, based on 100 hours per year testing and maintenance). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.151 tons/yr (total for all 3 fire pumps, based on 100 hours per year testing and maintenance). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.013 tons/yr (total for all 3 fire pumps, based on 100 hours per year testing and maintenance). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.013 tons/yr (total for all 3 fire pumps, based on 100 hours per year testing and maintenance). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Emergency fire pumps to be operated only: 1. During 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, or 2. During fire or flood emergencies. [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Other: Record the following information each time a fire pump is operated: i. The reason for its operation; ii. The date together with the start up and shut down time; iii. The actual testing / maintenance time (based on hour meter reading); and iv. The operator's name.[N.J.A.C. 7:27-19.11].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The emergency fire pumps shall not be used 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 http://airnow.gov/, 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 http://www.state.nj.us/dep/aqpp/aqforecast. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.
8	The owner or operator of a fire pump engine with a displacement of less than 30 liters per cylinder, for model years 2009 and later, and nameplate engine power 300 HP, must comply with the emissions standards in Table 4 of NSPS IIII as follows: NMHC + NOx <= 3.0 g/HP-hr, and PM <= 0.15 g/HP-hr. [40 CFR 60.4205(c)]	None.	None.	None.
9	The owner or operator of a fire pump engine that was manufactured during or after the model year that applies to the engine power rating in Table 3 of NSPS IIII and must comply with the emission standards in 40 CFR 60.4205(c), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(c), for the same model year and maximum engine power. [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation for the life of the equipment from the manufacturer that the engine is certified to meet the emission standards. [40 CFR 60.4211(c)].	None.
10	The engine must be installed and configured according to the manufacturer's emission-related specifications. [40 CFR 60.4211(c)]	None.	Other: The owner or operator shall keep the manufacturer's written instructions and procedures over the entire life of the engine.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	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.	None.	None.
12	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 according to the manufacturer's emission-related and change those settings that are permitted by the manufacturer. [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's written instructions and procedures over the entire life of the engine.[N.J.A.C. 7:27-22.16(o)].	None.
13	Owners and operators of CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII that use diesel fuel must purchase diesel fuel that meets the following 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. [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(a)]	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(a)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Emergency stationary internal combustion engines must be operated as follows: There is no time limit to their use in emergency situations. They may be operated for 100 hrs/yr for 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. They may be operated for up to 50 hrs per year in non-emergency situations specified at [40 CFR 60.4211(f)(3)(i)], but those 50 hrs are counted towards the 100 hrs per year provided for maintenance and readiness testing. [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(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. [N.J.A.C. 7:27-22.16(a)]	None.
15	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. [40 CFR 60.12]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U11000 323 bhp Tier 3 Fire Pumps**

Operating Scenario: **OS1 Emergency Fire Pump P-1F, OS2 Emergency Fire Pump P-2F, OS3 Emergency Fire Pump P-3F**

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	Emergency fire pump driver fuel limited to Diesel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hours of Operation <= 100 hr/yr during normal testing and maintenance procedures. Emergency use is unlimited. [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 each month during operation. [N.J.A.C. 7:27-19.11]	None.
4	Particulate Emissions <= 1.4 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.
5	VOC (Total) <= 0.088 lb/hr (0.123 gm/BHP-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	NOx (Total) <= 1.57 lb/hr (2.2 gm/BHP-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 1.01 lb/hr (1.417 gm/BHP-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.084 lb/hr (0.118 gm/BHP-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 0.084 lb/hr (0.118 gm/BHP-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U12000 Pedersen Building Emergency Generator**
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	Maximum Gross Heat Input <= 2.14 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Engine Rated Capacity. [N.J.A.C. 7:27-22.16(o)].	None.	None.
3	Generator fuel limited to diesel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Sulfur content in Fuel less than or equal to 500 ppm effective from 7/1/14 to 6/30/16. Sulfur content in Fuel less than or equal to 15 ppm from 7/1/16 onwards. [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 and date of storage. [N.J.A.C. 7:27-22.16(o)]	None.
5	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.
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 each month during operation. The owner or operator shall maintain onsite and record in a logbook or computer data system the total operating time for testing and maintenance from the generator's hour meter. [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	An emergency generator shall be located at the facility and produce electrical power exclusively for use at the facility. This emergency generator shall be operated only: 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, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 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]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The Permittee shall maintain the following information: 1. 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; and 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. [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	An emergency generator shall not be used: 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 http://airnow.gov/, 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: http://www.state.nj.us/dep/aqpp/aqforecast; and 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)]	None.	None.	None.
9	Hours of Operation <= 400 hr/yr for emergency operation only. [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 each month during operation. The owner or operator shall calculate hours for emergency operation by deducting hours for testing and maintenance from the total operating time from the generator's hour meter. The hours of operation limit shall be for purposes of establishing potential to emit. [N.J.A.C. 7:27-19.11]	Submit notification: Upon occurrence of event. The Permittee shall contact the Regional Enforcement Office (REO) if the actual hours of emergency operation exceed the total time allowed for emergencies under this permit. The Permittee shall call the appropriate REO within 24 hours of the occurrence of excess emergency operation and submit written notification of the excess emergency operation within 72 hours of the occurrence and may request additional operational hours for situations meeting the definition of an emergency as defined at N.J.A.C. 7:27-8 and N.J.A.C. 7:27-22. [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
10	Particulate Emissions <= 1.28 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.
11	VOC (Total) <= 0.04 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	NOx (Total) <= 0.87 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	CO <= 0.06 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	SO2 <= 0.1 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.
15	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.
16	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.
17	An existing stationary CI RICE (constructed or reconstructed before June 12, 2006) with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, must comply with the applicable emission limitations and operating limitations in 40 CFR 63 Subpart ZZZZ no later than May 3, 2013. [40 CFR 63.6595(a)(1)]	None.	None.	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	An owner or operator of an existing stationary emergency or black start RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions, or 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)]	None.	Other: Keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan[40 CFR 63.6655(e)].	None.
20	The owner/operator of an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	None.	Other: Keep records of engine operating hours using a non-resettable hour meter. The permittee must document total hours of emergency operation, including what classified the operation as emergency, and the total hours of non-emergency operation.[40 CFR 63.6655(f)].	None.
21	The permittee 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 after which the non-startup emission limitations apply. [40 CFR 63.6625(h)]	Other: Monitor each start-up.[N.J.A.C. 7:27-22.16(o)].	Other: Record each engine start-up and the time spent at "idle" during each start-up.[N.J.A.C. 7:27-25.16(o)].	None.
22	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)]	Other: The owner/operator must follow the manufacturer's emission-related operation and maintenance instructions, or the inhouse maintenance plan developed to maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.[40 CFR 63.6640(a)].	Other: Record each deviation as specified at [40 CFR 63.6640(b)] and[40 CFR 63.6655].	Submit a report: Other. The owner/operator must report each instance in which the RICE did not meet applicable each emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ. Report deviations according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	The owner or operator of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 shall: a) Change oil and filter every 500 hours of operation or annually, whichever comes first, b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.[40 CFR 63 Subpart ZZZZ Table 2c 1]. [40 CFR 63.6602]	None.	Other: The permittee must keep records of all oil/oil filter changes, and air cleaner, hose and belt replacements. 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 63.10(b)(1). [40 CFR 63.6660(c)] and[40 CFR 63.6655].	Submit a report: Other. The owner/operator must report each instance in which the RICE did not meet applicable each emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ. Report deviations according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]
24	The owner or operator of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 has the option of utilizing an oil analysis program to extend the specified oil change requirements in Table 2 c to 40 CFR 63 Subpart ZZZZ. The oil analysis program must operate as specified in [40 CFR 63.6625(i)]	Other: Monitored by analysis of the oil as specified in[40 CFR 63.6625(i)].	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 parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. [40 CFR 63.6625(i)]	None.
25	The owner/operator must demonstrate continuous compliance with each applicable emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ according to methods specified in Table 6 to 40 CFR 63 subpart ZZZZ. [40 CFR 63.6640(a)]	Other: The owner/operator must follow the manufacturer's emission-related operation and maintenance instructions, or the inhouse maintenance plan developed to maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.[40 CFR 63.6640(a)].	Other: Record each deviation [40 CFR 63.6640(b) and[40 CFR 63.6655].	Submit a report: Other. The owner/operator must report each instance in which the RICE did not meet applicable each emission limitation or operating limitation in Table 2c to 40 CFR 63 subpart ZZZZ. Report deviations according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	An existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions must be operated according to the limitations specified in 40 CFR 63.6640(f)(1)(i) through (iii). (i) There is no time limit on the use of emergency stationary RICE in emergency situations. (ii) The emergency stationary RICE may be operated 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. (iii) The emergency stationary RICE may be operated up to 50 hours per year in non-emergency situations subject to the limitations specified in 40 CFR 63.6640(f)(1)(iii). Those 50 hours will be counted towards the 100 hours per year provided for maintenance and testing. [40 CFR 63.6640(f)(1)]	Monitored by hour/time monitor continuously. [40 CFR 63.6655(f)]	Other: 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.[40 CFR 63.6655(f)].	None.
27	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 CI RICE <= 500 HP or black start RICE constructed or reconstructed before June 12, 2006 and located at a major source of HAP. [40 CFR 63.6665]	None.	None.	Submit a report: Other. The owner/operator must report each instance in which the RICE did not meet the requirements in Table 8 to 40 CFR 63 Subpart ZZZZ. [40 CFR 63.6640(e)]
28	No owner or operator subject to the provisions of this part must operate any affected source in violation of the requirements of this part or fail to keep records, notify, report, or revise reports as required under this part. [40 CFR 63.4(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	No owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. [40 CFR 63.4(b)]	None.	None.	None.
30	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. [40 CFR 63.4(c)]	None.	None.	None.
31	At all times, including periods of startup, shutdown, and malfunction, the owner or operator must operate and maintain any affected source, 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 63.6(e)(1)(i)]	None.	None.	None.
32	The Administrator will determine compliance with nonopacity emission standards in this part based on the results of performance tests conducted according to the procedures in 40 CFR 63.7, and by evaluation of an owner or operator's conformance with operation and maintenance requirements, including the evaluation of monitoring data, as specified in 40 CFR 63.6(e) and applicable subparts of this part. [40 CFR 63.6(f)(2)(i)] and [40 CFR 63.6(f)(2)(ii)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	The Administrator will determine compliance with design, equipment, work practice, or operational emission standards in this part by review of records, inspection of the source, and will determine compliance with design, equipment, work practice, or operational emission standards in this part by evaluation of an owner or operator's conformance with operation and maintenance requirements, as specified in paragraph (e) of this section. [40 CFR 63.6(f)(2)(iv)] and [40 CFR 63.6(f)(2)(v)]	None.	None.	None.
34	Monitoring shall be conducted as set forth in this section unless otherwise specified by the Administrator. [40 CFR 63.8(b)(1)]	None.	None.	None.
35	The owner or operator of a title V source shall comply with all requirements for compliance status reports contained in the source's title V permit, including reports required under this part. Each time a notification of compliance status is required under this part, the permittee shall submit the notification of compliance status to the appropriate permitting authority following completion of the relevant compliance demonstration activity specified in the relevant standard. [40 CFR 63.9(h)(3)]	None.	None.	None.
36	The permittee shall submit all information to the Regional Enforcement Office of NJDEP and to the Director, Air and Waste Management Division, 26 Federal Plaza, New York, NY 10278. [40 CFR 63.10(a)(4)(ii)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	The permittee shall maintain files of all information (including all reports and notifications) recorded in a form available for expeditious inspection and review. Files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. [40 CFR 63.10(b)(1)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U13000 Portable Air Compressors for Site-Wide Use**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tier 4 nonroad compression-ignition engines (model year 2014 and earlier) shall meet the exhaust emission standards specified at 40 CFR 1039.102(b). Table 6 of 40 CFR 1039.102(b) shall apply to engines in the power range 130<=kW<560. [N.J.A.C. 7:27-22.16(a)]	Other: Engines shall be installed and maintained according to the requirements at 40 CFR 1039.130 and 40 CFR 1039.125. Engines shall be labelled as specified at 40 CFR 1039.135 [N.J.A.C. 7:27-22.16(o)].	Other: Keep records of all maintenance performed.[N.J.A.C. 7:27-22.16(o)].	None.
2	These Tier 4 nonroad engines manufactured in 2012 shall be operated on ultra low sulfur diesel having a maximum total sulfur content of 15 ppm [40 CFR 1039.104(e)] [N.J.A.C. 7:27-22.16(a)]	Monitored by review of fuel delivery records once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 0.19 grams/kW-hr from Table 6 of 40 CFR 1039.102(b) . [N.J.A.C. 7:27-22.16(a)]	Other: The owner / operator shall obtain Certificate of Conformity that meets the specifications at 40 CFR 1039 Subpart C from the engine manufacturer. [N.J.A.C. 7:27-22.16(o)].	Other: Keep the Certificate of Conformity for the life of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.
4	NOx (Total) <= 0.4 grams/kW-hr from Table 6 of 40 CFR 1039.102(b) . [N.J.A.C. 7:27-22.16(a)]	Other: The owner / operator shall obtain Certificate of Conformity that meets the specifications at 40 CFR 1039 Subpart C from the engine manufacturer. [N.J.A.C. 7:27-22.16(o)].	Other: Keep the Certificate of Conformity for the life of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.
5	Carbon monoxide <= 3.5 grams/kW-hr from Table 6 of 40 CFR 1039.102(b) . [N.J.A.C. 7:27-22.16(a)]	Other: The owner / operator shall obtain Certificate of Conformity that meets the specifications at 40 CFR 1039 Subpart C from the engine manufacturer. [N.J.A.C. 7:27-22.16(o)].	Other: Keep the Certificate of Conformity for the life of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.
6	TSP <= 0.02 grams/kW-hr from Table 6 of 40 CFR 1039.102(b) . [N.J.A.C. 7:27-22.16(a)]	Other: The owner / operator shall obtain Certificate of Conformity that meets the specifications at 40 CFR 1039 Subpart C from the engine manufacturer. [N.J.A.C. 7:27-22.16(o)].	Other: Keep the Certificate of Conformity for the life of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	PM-10 (Total) <= 0.02 grams/kW-hr from Table 6 of 40 CFR 1039.102(b) . [N.J.A.C. 7:27-22.16(a)]	Other: The owner / operator shall obtain Certificate of Conformity that meets the specifications at 40 CFR 1039 Subpart C from the engine manufacturer. [N.J.A.C. 7:27-22.16(o)].	Other: Keep the Certificate of Conformity for the life of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.
8	VOC (Total) <= 1.03 tons/yr (total for all three compressors, each running 8760 hours per year). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 2.16 tons/yr (total for all three compressors, each running 8760 hours per year). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 18.88 tons/yr (total for all three compressors, each running 8760 hours per year). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Crankcase emissions may not be discharged directly into the ambient atmosphere from any engine throughout its useful life, except as specified at 40 CFR 1039.115(a). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Engine adjustable parameters shall be handled as specified at 40 CFR 1039.115(e). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U13000 Portable Air Compressors for Site-Wide Use**

Operating Scenario: **OS13001 Portable Air Compressor CP-006, OS13002 Portable Air Compressor CP-007, OS13003 Portable Air Compressor CP-008**

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	Maximum Rated Power Output <= 183.75 Kilowatts (250 bhp). [N.J.A.C. 7:27-22.16(a)]	Other: Engine rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
3	VOC (Total) <= 0.078 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.16 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Carbon monoxide <= 1.44 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Particulate Emissions <= 0.38 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U14001 Portable Air Compressor (J25 Bldg)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Rent a 2.4 mmBtu/hr / 305 hp / Tier 3 / diesel fired portable air compressor. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records of Tier 3 certification.[N.J.A.C. 7:27-22.16(o)].	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	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	VOC (Total) <= 0.15 tons/yr based on an AP-42 emission factor of 0.3 g/hp-hr and 1440 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 1.3 tons/yr based on a Tier 3 emission factor of 2.7 g/hp-hr and 1440 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 0.65 tons/yr based on a Tier 3 emission factor of 1.3 g/hp-hr and 1440 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.06 tons/yr based on a Tier 3 emission factor of 0.1 g/hp-hr and 1440 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.06 tons/yr based on a Tier 3 emission factor of 0.1 g/hp-hr and 1440 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U14001 Portable Air Compressor (J25 Bldg)**
Operating Scenario: **OS1 Portable Air Compressor (J25 Bldg)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Hours of Operation <= 1,440 hr/yr. [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 each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
2	Particulate Emissions <= 1.44 lb/hr based on a gross heat input of 2.4 mmBtu/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 0.2 lb/hr based on a AP-42 emission limit of 0.3 g/hp-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 1.81 lb/hr based on a Tier 3 emission limit of 2.7 g/hp-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.9 lb/hr based on a Tier 3 emission limit of 1.3 g/hp-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.08 lb/hr based on a Tier 3 emission limit of 0.1 g/hp-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.08 lb/hr based on a Tier 3 emission limit of 0.1 g/hp-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Chemours-Chambers Works

Facility ID (AIMS): 65473

Street Address: THE CHEMOURS COMPANY FC LLC
CHAMBER WORKS
67 CANAL RD PO BOX 9001
DEEPWATER, NJ 08023

Mailing Address: THE CHEMOURS COMPANY FC LLC
CHAMBER WORKS
67 CANAL RD PO BOX 9001
DEEPWATER, NJ 08023

State Plane Coordinates:

X-Coordinate:	317,100
Y-Coordinate:	312,418
Units:	Feet
Datum:	NAD83
Source Org.:	Submittal Document
Source Type:	Other/Unknown

County: Salem

Location Description: Along the Delaware River, just North of the Delaware Memorial Bridge

Industry:

Primary SIC:	2821
Secondary SIC:	
NAICS:	325199

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: The Chemours Company FC, LLC
Org. Type: Corporation
Name: Scott Northey
NJ EIN: 00465626518
Title: Environmnetal Manager
Phone: (856) 540-2012 x
Fax: (856) 540-3203 x
Other: (201) 360-9245 x
Type:
Email: scott.t.northey@chemours.com
Mailing Address: Chambers Works
67 Canal Road, P.O. Box 9001
P.O. Box 9001
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Contact Type: Emission Statements

Organization: The Chemours Company FC, LLC
Org. Type: Corporation
Name: Scott Northey
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Fax: (856) 540-3203 x
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Contact Type: Fees/Billing Contact

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Org. Type: Corporation
Name: Scott Northey
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Other: (302) 354-7321 x
Type: Mobile
Email: scott.t.northey@chemours.com
Mailing Address: Chambers Works
67 Canal Road, P.O. Box 9001
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Deepwater, NJ 08023

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: General Contact

Organization: The Chemours Company FC, LLC
Org. Type: Corporation
Name: Scott Northey
NJ EIN: 00465626518
Title: Environmental Manager
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Fax: (856) 540-3203 x
Other: (302) 354-7321 x
Type: Mobile
Email: scott.t.northey@chemours.com

Mailing Address:
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67 Canal Road, P.O. Box 9001
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Deepwater, NJ 08023

Contact Type: Operator

Organization: The Chemours Company FC, LLC
Org. Type: Corporation
Name:
NJ EIN: 00465626518
Title:
Phone: ( ) - x
Fax: ( ) - x
Other: ( ) - x
Type:
Email:

Mailing Address:
The Chemours Company FC, LLC
67 Canal Rd
P.O. Box 9001
Deepwater, NJ 08023

Contact Type: Owner (Current Primary)

Organization: The Chemours Company FC, LLC
Org. Type: Corporation
Name: Scott Northey
NJ EIN: 00465626518
Title: Environmnetal Manager
Phone: (856) 540-2012 x
Fax: (856) 540-3203 x
Other: (302) 354-7321 x
Type: Mobile
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Mailing Address:
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CHAMBERS WORKS (65473)
BOP240002

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: **Responsible Official**

Organization: The Chemours Company FC, LLC
Org. Type: Corporation

Name: Julie Johnson
NJ EIN: 00465626518

Title: Plant Manager

Phone: (856) 540-2600 x
Fax: (856) 540-2343 x
Other: ( ) - x
Type:
Email: julie.b.johnson@chemours.com

Mailing Address:
Chambers Works
67 Canal Road, P.O. Box 9001
Building M-1
Deepwater, NJ 08023

CHAMBERS WORKS (65473)
BOP240002

Date: 06/24/2025

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)
FG1000	Building Demolition	Site-Wide	0.000	0.000	0.000	0.000	12.900	8.600	0.000	0.00000000	0.000
FG1001	Leak detection from valves, flanges, pump seals, agitator seals, etc. and repair	SITE-WIDE	5.750	0.000	0.000	0.000	0.000	0.000	0.000	3.00000000	0.000
FG1002	SET: LANDFILLS	SITE-WIDE	0.000	0.000	0.000	0.000	1.000	1.000	0.000	0.00000000	0.000
FG1004	[3] STORAGE VESSEL (PRESSURIZED TANK)	SITE-WIDE	0.440	0.000	0.000	0.000	0.000	0.000	0.000	0.44000000	26.100
FG1005	Fluoroproducts Business Unit Maintenance and Sampling Activity	Fluoroproducts	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.04000000	2.300
FG1006	Particulate Matter from Paved Roads	Facility-Wide	0.000	0.000	0.000	0.000	5.700	1.110	0.000	0.00000000	0.000
FG1007	Particulate Matter from Unpaved Roads	Facility-Wide	0.000	0.000	0.000	0.000	4.910	0.915	0.000	0.00000000	0.000
FG1800	SMPF: Purging of TFE Header Line	Building 1470	0.800	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG3501	Mix Tank #1 Filling	SET	0.194	0.000	0.000	0.000	0.000	0.000	0.000	0.19400000	0.000
FG3502	Mix Tank #2 Filling	SET	0.166	0.000	0.000	0.000	0.000	0.000	0.000	0.16600000	0.000
FG3503	Filter Press #1 Operation	SET	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00100000	0.000
FG3504	Filter Press #2 Operation	SET	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00100000	0.000
FG3505	Filter Press #3 Operation	SET	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00100000	0.000

CHAMBERS WORKS (65473) Date: 06/24/2025
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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)
FG3506	Diesel Tank Filling	SET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG5500	DPE: Purging of TFE Lines venting to Hotwell TC-343	DuPont Performanbce Elastomers	0.231	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
Total			7.584	0.000	0.000	0.000	24.510	11.625	0.000	3.84300000	28.400

CHAMBERS WORKS (65473)
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Date: 6/24/2025

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)
IS1003	[6] Surface Cleaning Operation (Degreaser)	Cleaning Machine (Open Top: Cold)	Site-wide	0.480	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS1004	[27] Manufacturing & Material Handling Equipment (< 50 lb/hr)	Manufacturing and Materials Handling Equipment	Site-wide	1.234	0.000	0.000	0.000	0.036	0.036	0.000	0.29000000	0.000
IS1005	[13] Storage Vessel (< 10,000 gallons, non-VOC/HAP)	Storage Vessel	Site-wide	8.000	0.000	0.000	0.000	2.100	2.100	0.000	6.00000000	0.880
IS1006	[28] Storage Vessel (< 2,000 gallons)	Storage Vessel	Site-wide	2.810	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS1007	[5] Solids Storage Vessel (< 2,000 cf)	Storage Vessel	Site-wide	0.000	0.000	0.000	0.000	0.920	0.920	0.000	0.00000000	0.000
IS1009	[14] Fuel Combustion Equipment (< 1 MMBtu/hr)	Fuel Combustion Equipment (Other)	Site-wide	0.880	11.100	2.390	0.730	0.790	0.790	0.000	0.00000000	0.000
IS1010	[46] Transfer Operations	Other Equipment	Site-wide	7.500	0.000	0.000	0.000	0.000	0.000	0.000	6.22000000	0.000
IS1013	[20] Mixing and blending vessels.	Other Equipment	Site-wide	1.220	0.000	0.030	0.000	0.000	0.000	0.000	0.04800000	0.000
IS1014	[5] Storage Vessel (> 2,000 gal)	Storage Vessel	Site-wide	1.220	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.470
IS1015	[12] Storage Vessel (> 10,000 gal)	Storage Vessel	Site-wide	1.010	0.000	0.000	0.000	2.120	2.120	0.000	0.00000000	0.640
IS1016	CAER Bldg Emergency Generator	Fuel Combustion Equipment (Other)	CAER Building	0.008	0.282	0.123	0.031	0.007	0.007	0.000	0.00750000	0.000

CHAMBERS WORKS (65473)
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Date: 6/24/2025

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)
IS1017	FIrehouse Emergency Generator	Fuel Combustion Equipment (Other)	P&U Firehouse	0.025	0.320	0.068	0.021	0.022	0.022	0.000	0.05100000	0.000
IS1018	[2] Grease Blending	Manufacturing and Materials Handling Equipment	PC West	0.000	0.000	0.000	0.000	0.060	0.060	0.000	0.00000000	0.000
IS1019	CRG Sample Processing	Manufacturing and Materials Handling Equipment	Bldg 1115	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS1020	CLIF Project Emergency Generator	Fuel Combustion Equipment (Other)	Broadway Gate	0.050	0.001	0.000	0.000	0.000	0.000	0.000	0.00800000	0.000
IS1021	[2] Other equipment	Other Equipment	Site-wide	2.500	0.000	0.000	0.000	5.250	5.250	0.000	0.00000000	0.050
IS1700	[1] Lab Hood (<50 lb/hr)	Other Equipment		0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS3513	Storage Vessel T-34 (Lime Slurry Storage)	Storage Vessel	SET-WWTP	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS3514	TS-100 (WAL Accumulation Tank)	Storage Vessel	SET-WAL	0.015	0.000	0.000	0.000	0.010	0.010	0.000	0.00180000	0.000
IS3515	SET Storage tank (Previously E3201)	Storage Vessel	SET	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.10000000	0.000
IS5500	[6] Manufacturing & Material Handling Equipment (< 50 lb/hr)	Other Equipment		2.000	0.000	0.000	0.000	0.000	0.000	0.000	2.00000000	0.000
IS5501	[10] Lab hood (<50 lb/hr)	Other Equipment		1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS5504	Non-VOC, non-HAP storage vessel	Storage Vessel	DPP	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

CHAMBERS WORKS (65473)
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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)
IS5505	TFE/CO2 Transfer operations	Manufacturing and Materials Handling Equipment	DPP	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS5506	Blower - Sub-Slab Depressurization System-Ventilation Building	Other Equipment	Bldg No. SSD (Building 745 Section A)	0.031							0.03100000	
IS5507	Interceptor Wells System	Soil Venting Equipment	Site-wide		0.000	0.000	0.000	0.000	0.000	0.000		
IS5508	DNAPL 55-Gallon Drums	Storage Vessel	Site-wide		0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
Total				31.231	11.703	2.611	0.782	11.315	11.315	0.000	14.75730000	2.040

CHAMBERS WORKS (65473) Date: 6/24/2025

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New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E901		PC BLDG - 1207: AB-94 Absorber	Manufacturing and Materials Handling Equipment	PCP020001		No		
E904	P-1469	PC BLDG - 1207: Catch Tank/P-1469 Vacuum Pump	Manufacturing and Materials Handling Equipment	PCP020001		No		
E906	TE-631	PC BLDG - 1207: TE-631 Storage Tank	Manufacturing and Materials Handling Equipment	PCP020001		No		
E1002	BT-1	PC-BLDG A: THAWROOM BT-1	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1003	BT-3	PC-BLDG A: THAWBOX BT-3	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1004	BT-4	PC-BLDG A: THAWBOX BT-4	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1005	BT-5	PC-BLDG A: THAWBOX BT-5	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1007	K-11	PC-BLDG A: KETTLE K-11	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1008	K-1	PC-BLDG A: KETTLE K-1	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000

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E1009	K-2	PC-BLDG A: KETTLE K-2	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1010	K-10	PC-BLDG A: RECEIVER K-10	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1012	K-15	PC-BLDG A: KETTLE K-15	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1013	K-16	PC-BLDG A: RECEIVER K-16	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1014	K-17	PC-BLDG A: KETTLE K-17	Manufacturing and Materials Handling Equipment	PCP040002	2/15/2010	No		ES1000
E1017	K-19	PC-BLDG A: KETTLE K-19	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1018	K-18	PC-BLDG A: RECEIVER K-18	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1028	K-14	PC-BLDG A: KETTLE K-14	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1029	K-13	PC-BLDG A: KETTLE K-13	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000

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E1030	TE-8	PC-BLDG A: RECEIVER TE-8	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1031	TE-9	PC-BLDG A: RECEIVER TE-9	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1032	TE-10	PC-BLDG A: RECEIVER TE-10	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1033	TS-9	PC-BLDG A: RECEIVER TS-9	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1034	K-9	PC-BLDG A: KETTLE K-9	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1036	K-4	PC-BLDG A: KETTLE K-4	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1037	K-6	PC-BLDG A: RECEIVER K-6	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1038	K-5	PC-BLDG A: RECEIVER K-5	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1039	K-8	PC-BLDG A: KETTLE K-8	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000

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E1041	T-8	PC-BLDG A: KETTLE T-8	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1044	TS-55	PC-BLDG A: STORAGE TANK TS-55	Storage Vessel	PCP040002		No		ES1000
E1045	TS-70	PC-BLDG A: STORAGE TANK TS-70	Storage Vessel	PCP040002		No		ES1000
E1046	TS-71	PC-BLDG A: STORAGE TANK TS-71	Storage Vessel	PCP040002		No		ES1000
E1047	TS-72	PC-BLDG A: STORAGE TANK TS-72	Storage Vessel	PCP040002		No		ES1000
E1053	TS-114	PC-BLDG A: STORAGE TANK TS-114	Storage Vessel	PCP040002		No		ES1000
E1058	T-4	PC-BLDG A: TANK T-4	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1060	T-29	PC-BLDG A: TANK T-29	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1062	T-30	PC-BLDG A: TANK T-30	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1063	TM-17	PC-BLDG A: MEASURING TANK TM-17	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000

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E1064	T-45	PC-BLDG A: TANK T-45	Manufacturing and Materials Handling Equipment	PCP040002		No		ES1000
E1065	T-38	PC-BLDG A: TANK T-38	Manufacturing and Materials Handling Equipment			No		ES1000
E1066	T-46	PC-BLDG A: TANK T-46	Manufacturing and Materials Handling Equipment			No		ES1000
E1067	TF-4	PC-BLDG A: MIX TANK TF-4	Manufacturing and Materials Handling Equipment			No		ES1000
E1303	K-1	PC-BLDG 115: JACKETED REACTOR K-1	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1305	K-3/ C-18	PC-BLDG 115: REACTOR SYSTEM K-3 WITH PROCESS CONDENSER C-18	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1306	RE-1	PC-BLDG 115: JACKETED REACTOR RE-1	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1307	RE-2	PC-BLDG 115: JACKETED REACTOR RE-2	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300

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E1310	RE-5	PC-BLDG 115: JACKETED REACTOR RE-5	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1311	SC-6	PC-BLDG 115: PACKOUT STATION SC-6	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1312	SC-6A	PC-BLDG 115: PACKOUT STATION SC-6A	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1313	SC-38	PC-BLDG 115: PACKOUT STATION SC-38	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1314	SC-131	PC-BLDG 115: TON CYLINDER PACKOUT STATION SC-131	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1315	T-19	PC-BLDG 115: RECEIVING TANK T-19	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1316	T-38	PC-BLDG 115: STEEL TANK T-38	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1317	T-53	PC-BLDG 115: TANK T-53	Manufacturing and Materials Handling Equipment	BOP220003	4/18/2023	No		ES1300

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E1318	T-54/ C-16	PC-BLDG 115: STANDARDIZER T-54 WITH PROCESS CONDENSER C-16	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1319	TS-17/16	PC-BLDG 115: STORAGE TANK SYSTEM TS-17/16	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1320	SC-10	PC-BLDG 115: PACKOUT STATION SC-10.	Manufacturing and Materials Handling Equipment			No		ES1300
E1322	A-14/ C-14	PC-BLDG 115: AUTOCLAVE A-14 WITH PROCESS CONDENSER C-14	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1300
E1400	A-10	PC-BLDG 185: REACTOR A-10	Manufacturing and Materials Handling Equipment	PCP040003		No		ES1400
E1402	SP-10	PC-BLDG 185: SEPARATOR SP-10	Manufacturing and Materials Handling Equipment	PCP040003		No		ES1400
E1403	SP-11	PC-BLDG 185: SEPARATOR SP-11	Manufacturing and Materials Handling Equipment	PCP040003		No		ES1400
E1404	A-15	PC-BLDG 185: Tank A-15	Manufacturing and Materials Handling Equipment	PCP040003		No		ES1400

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E1405	DV-40	PC-BLDG 185: Receiver DV-40	Manufacturing and Materials Handling Equipment	PCP040003	6/1/2015	No		ES1400
E1408	K-40	PC-BLDG 185: Kettle K-40	Manufacturing and Materials Handling Equipment	PCP040003		No		ES1400
E1409	K-50	PC-BLDG 185: REACTOR K-50	Manufacturing and Materials Handling Equipment	PCP040003		No		ES1400
E1411	SP-50	PC-BLDG 185: SEPARATOR SP-50	Manufacturing and Materials Handling Equipment	PCP040003		No		ES1400
E1412	SP-51	PC-BLDG 185: SEPARATOR SP-51	Manufacturing and Materials Handling Equipment		12/1/2015	No		ES1400
E1413	S-30	PC-BLDG 185: Tank S-30	Manufacturing and Materials Handling Equipment	PCP040003		No		ES1400
E1415	HM-1	PC-BLDG 185: HOMOGENIZER HM-1	Manufacturing and Materials Handling Equipment	PCP040003		No		ES1400
E1416	TE-30	PC-BLDG 185: Tank TE-30	Manufacturing and Materials Handling Equipment	PCP040003		No		ES1400
E1417	S-60	PC-BLDG 185: Tank S-60	Manufacturing and Materials Handling Equipment	PCP040003	11/1/2013	No		ES1400

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E1418	HM-2	PC-BLDG 185: HOMOGENIZER HM-2	Manufacturing and Materials Handling Equipment	PCP040003		No		ES1400
E1419	TE-60	PC-BLDG 185: Tank TE-60	Manufacturing and Materials Handling Equipment	PCP040003	11/1/2013	No		ES1400
E1420	T-70	PC-BLDG 185: Tank T-70	Manufacturing and Materials Handling Equipment	PCP040003		No		ES1400
E1423	TS-45	PC-BLDG 185: STORAGE TANK TS-45	Storage Vessel	PCP040003		No		ES1400
E1424	AC-22	PC-BLDG 185: TANK AC-22	Manufacturing and Materials Handling Equipment		12/1/2015			ES1400
E1501	S-41	PC-BLDG ZI: GLASS LINED REACTOR SYSTEM S-41	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500
E1502	C-41	PC-BLDG ZI: CONDENSER C-41	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500
E1503	K-42	PC-BLDG ZI: RECEIVER K-42	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500
E1506	TE-42	PC-BLDG ZI: RECEIVER TE-42 WITH SEPARATOR	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500

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E1508	K-41	PC-BLDG ZI: WASH VESSEL K-41	Manufacturing and Materials Handling Equipment	PCP990004	4/1/2012	No		ES1500
E1509	SF-41	PC-BLDG ZI: SULFATOR SF-41	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500
E1510	K-44	PC-BLDG ZI: HYDROLYZER K-44	Manufacturing and Materials Handling Equipment	PCP990004	7/24/2017	No		ES1500
E1511	TS-40	PC-BLDG ZI: STORAGE TANK TS-40	Storage Vessel	PCP990004		No		ES1500
E1512	TS-41	PC-BLDG ZI: STORAGE TANK TS-41	Storage Vessel	PCP990004		No		ES1500
E1513	TS-42/ TC-43	PC-BLDG ZI: STORAGE TANK TS-42 WITH CATCH TANK TC-43	Storage Vessel	PCP990004		No		ES1500
E1514	CT-60	PC-BLDG ZI: CENTRIFUGE CT-60	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500
E1516	TE-60	PC-BLDG ZI: VESSEL TE-60	Manufacturing and Materials Handling Equipment	PCP990004	9/1/2016	No		ES1500
E1518	PR-60	PC-BLDG ZI: PRECIPITATOR PR-60	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500

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E1519	TM-41	PC-BLDG ZI: MEASURING TANK TM-41	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500
E1521	FN-60	PC-BLDG ZI: FAN FN-60	Manufacturing and Materials Handling Equipment		8/23/2017	No		ES1500
E1524	BD-60	PC-BLDG ZI: DRUMMING BOOTH BD-60	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500
E1528	EC-41	PC-BLDG ZI: DECANTER EC-41	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500
E1532	TW-41	PC-BLDG ZI: VESSEL, WEIGH TANK TW-41	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500
E1534	BD-1	PC-BLDG ZI: BLOW OFF BOX BD-1 WITH PROCESS CONDENSER C-44 AND WATER EDUCTOR J-44	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500
E1536	TD-41	PC-BLDG ZI: FLOW SPLITTER TD-41	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500
E1537	FE-1	PC-BLDG ZI: FUNNEL FE-1	Manufacturing and Materials Handling Equipment	PCP990004		No		ES1500
E1538	TS-35	PC-BLDG ZI: STORAGE TANK TS-35	Storage Vessel	PCP990004		No		ES1500 ES1501

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E1539	A-14	PC-BLDG 234: AUTOCLAVE A-14	Manufacturing and Materials Handling Equipment			No		ES1501
E1540	A-1	PC-BLDG 234: AUTOCLAVE A-1	Manufacturing and Materials Handling Equipment			No		ES1501
E1541	T/T SPOTS	T/T LOADING/ UNLOADING	Manufacturing and Materials Handling Equipment			No		ES1500 ES1501
E1542	TE-41	PC BLDG ZI: TANK TE-41	Manufacturing and Materials Handling Equipment		9/1/2016	No		ES1500
E1560	T-56	TANK T-56	Manufacturing and Materials Handling Equipment		1/1/2008	No		
E1561	E-Sump	E-Sump	Manufacturing and Materials Handling Equipment			No		
E1562	T-1	TANK T-1	Manufacturing and Materials Handling Equipment		3/1/2010	No		
E1563	T-2	SLURRY MIX TANK T-2	Manufacturing and Materials Handling Equipment		3/1/2010	No		
E1564	T-3	SLURRY MIX TANK T-3	Manufacturing and Materials Handling Equipment		3/1/2010	No		

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E1565	T-4	TANK T-4	Manufacturing and Materials Handling Equipment		3/1/2010	No		
E1566	T-5	TANK T-5	Manufacturing and Materials Handling Equipment		3/1/2010	No		
E1567	F-1	FILTER F-1	Manufacturing and Materials Handling Equipment		3/1/2010	No		
E1568	AD-1/2	CARBON ADSORBERS 1/2	Manufacturing and Materials Handling Equipment		3/1/2010	No		
E1601	BD-AA	PC-BLDG 1205: PACKOUT STATION BD-AA	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1602	BD-BB	PC-BLDG 1205: PACKOUT STATION BD-BB	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1603	BD-CC	PC-BLDG 1205: PACKOUT STATION BD-CC	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1604	BD-DD	PC-BLDG 1205: PACKOUT STATION BD-DD	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1605	BD-EE	PC-BLDG 1205: PACKOUT STATION BD-EE	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600

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E1606	BD-FF	PC-BLDG 1205: PACKOUT STATION BD-FF	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1607	BD-GG	PC-BLDG 1205: PACKOUT STATION BD-GG	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1608	BD-HH	PC-BLDG 1205: PACKOUT STATION BD-HH	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1609	BD-II	PC-BLDG 1205: PACKOUT STATION BD-II	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1610	BD-JJ	PC-BLDG 1205: PACKOUT STATION BD-JJ	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1611	BC-1	PC-BLDG 1205: PACKOUT STATION BC-1	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1612	BD-1	PC-BLDG 1205: PACKOUT STATION BD-1	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1613	BD-42	PC-BLDG 1205: PACKOUT STATION BD-42	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1614	BD-47	PC-BLDG 1205: PACKOUT STATION BD-47	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600

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E1615	BD-52	PC-BLDG 1205: PACKOUT STATION BD-52	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1616	BT-X	PC-BLDG 1205: STEAM COIL PLATFORM BT-X	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1617	BT-7	PC-BLDG 1205: THAW BOOTH BT-7	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1623	D-115	PC-BLDG 1205: HOT AIR TRAY DRYER D-115	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1624	D-116	PC-BLDG 1205: HOT AIR TRAY DRYER D-116	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1626	D-164	PC-BLDG 1205: DRYER D-164	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1627	D-165	PC-BLDG 1205: DRYER D-165	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1628	D-166	PC-BLDG 1205: DRYER D-166	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1629	D-167	PC-BLDG 1205: DRYER D-167	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600

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E1630	F-126	PC-BLDG 1205: SS PORTABLE NUTSCH F-126	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1631	RE-206	PC Bldg 1205: RE-206 HFIP Reactor	Manufacturing and Materials Handling Equipment			No		ES1600
E1632	TE-638	PC Bldg 1205: TE-638 Flash Tank	Manufacturing and Materials Handling Equipment			No		ES1600
E1633	PT-7	PC Bldg 1205: HFA Recovery Pot PT-7	Manufacturing and Materials Handling Equipment			No		ES1600
E1634	G-19	PC-BLDG 1205: STOKES GRANULATOR G-19	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1635	CL-186	PC Bldg 1205: HFA Recovery Column CL-186	Manufacturing and Materials Handling Equipment			No		ES1600
E1636	K-33	PC-BLDG 1205: NICKEL CLAD REACTOR K-33	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1637	K-61	PC-BLDG 1205: GLASS LINED REACTOR K-61	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1638	K-69	PC-BLDG 1205: GLASS LINED REACTOR K-69	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600

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E1639	K-132	PC-BLDG 1205: GLASS LINED REACTOR K-132	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1640	K-159	PC-BLDG 1205: SS REACTOR K-159	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1641	K-169	PC-BLDG 1205: GLASS LINED REACTOR K-169	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1642	K-172	PC-BLDG 1205: GLASS LINED REACTOR K-172	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1643	K-180	PC-BLDG 1205: GLASS LINED REACTOR K-180	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1644	K-191	PC-BLDG 1205: GLASS LINED REACTOR K-191	Manufacturing and Materials Handling Equipment	PCP040001	6/1/2015	No		ES1600
E1645	K-192	PC-BLDG 1205: GLASS LINED REACTOR K-192	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1646	K-193	PC-BLDG 1205: GLASS LINED REACTOR K-193	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1647	K-195	PC-BLDG 1205: CARPENTER 20 REACTOR K-195	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600

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E1648	K-196	PC-BLDG 1205: CARPENTER 20 REACTOR K-196	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1649	K-203	PC-BLDG 1205: GLASS LINED REACTOR K-203	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1650	K-204	PC-BLDG 1205: GLASS LINED REACTOR K-204	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1651	N-33	PC-BLDG 1205: SS PORTABLE NUTSCH N-33	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1652	C-7	PC Bldg 1205: HFA Recovery Condenser C-7	Manufacturing and Materials Handling Equipment			No		ES1600
E1653	SP-102	PC-BLDG 1205: SS SEPARATOR SP-102	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1654	TE-639	PC Bldg 1205: HFA Recovery Reflux Tank TE-639	Manufacturing and Materials Handling Equipment			No		ES1600
E1657	T-130	PC-BLDG 1205: BRICK LINED KETTLE T-130	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1658	T-216	PC-BLDG 1205: SCRUBBER TANK T-216	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600

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E1659	T-270	PC-BLDG 1205: STAINLESS STEEL KETTLE T-270	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1660	T-279	PC-BLDG 1205: ALUMINUM TANK T-279	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1661	TS-98	PC-BLDG 1205: GLASS LINED KETTLE TS-98	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1662	K-20	PC-BLDG 1205: GLASS LINED RECEIVER K-20	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1663	F-340	PC-BLDG 1205: FILTER F-340	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1664	TE-124	PC-BLDG 1205: TANK TE-124	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1665	TM63	PC-BLDG 1205: FEED TANK TM63	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1666	T-351	PC-BLDG 1205: STORAGE TANK T-351	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1667	F-431	PC-BLDG 1205: FILTER F-431	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600

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E1668	A-206	PC-BLDG 1205: REACTOR A-206	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1669	C-390	PC-BLDG 1205: CONDENSER C-390	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1672	AD-1	PC-BLDG 1205: Packed Bed Adsorber AD-1	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1673	AD-2	PC-BLDG 1205: Packed Bed Adsorber AD-2	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1674	TE-1	PC-BLDG 1205: Storage Tank TE-1	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1675	TE-2	PC-BLDG 1205: Storage Tank TE-2	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1676	RE-1	PC-BLDG 1205: REACTOR RE-1	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1679	RE-2	PC-BLDG 1205: REACTOR RE-2	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1681	TC-5	PC-BLDG 1205: Catch Tank TC-5	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600

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E1682	D-1	PC-BLDG 1205: DRYER D-1	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1683	K-33	PC-BLDG 1205: nickel clad reactor K-33	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1686	C-400	PC-BLDG 1205: HFIP condenser C-400	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1687	C-401	PC-BLDG 1205: HFIP condenser C-401	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1688	CL-184	PC-BLDG 1205: HFIP column CL-184	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1689	F-435	PC-BLDG 1205: HFIP bagfilter F-435	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1690	TE-640	PC-BLDG 1205: HFIP tank TE-640	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1691	V-64	PC-BLDG 1205: HFIP vaporizer V-64	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1692	C-18	PC-BLDG 1205: Condenser C-18	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600

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E1693	C-309	PC-BLDG 1205: Condenser C-309	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1695	TC-2	PC-BLDG 1205: DISTILLATE HOLD TANK TC-2 WITH PROCESS CONDENSER C-3	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1696	T-325	PC Bldg 1205: BPAF Drown Tank T-325	Manufacturing and Materials Handling Equipment	PCP040001		No		ES1600
E1697	TF-70	PC-BLDG 1205: STORAGE TANK TF-70	Storage Vessel	095732		No		ES1601
E1698	TF-71	PC-BLDG 1205: STORAGE TANK TF-71	Storage Vessel	095736		No		ES1601
E1701	CL-31	PC BLDG J-26 (J-30): COLUMN CL-31	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1702	CL-32	PC BLDG J-26 BAY 1: COLUMN CL-32	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1703	CL-33	PC BLDG J-26 (J-30): COLUMN CL-33	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1704	CL-34	PC BLDG J-26 BAY 1: COLUMN CL-34	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700

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E1705	CL-105	PC BLDG J-26 BAY 1: COLUMN CL-105 WITH PROCESS CONDENSER C-201	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1706	CL-171	PC BLDG J-26 BAY 1: COLUMN CL-171	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1707	CL-172	PC BLDG J-26 BAY 1: COLUMN CL-172	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1708	CL-173	PC BLDG J-26 BAY 1: COLUMN CL-173	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1709	CL-174	PC BLDG J-26 BAY 1: COLUMN CL-174	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1710	CL-175	PC BLDG J-26 BAY 1: COLUMN CL-175	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1711	CL-185	PC BLDG J-26 BAY 1: COLUMN CL-185	Manufacturing and Materials Handling Equipment		11/1/2016	No		ES1700
E1712	CL-186	PC BLDG J-26 BAY 1: COLUMN CL-186	Manufacturing and Materials Handling Equipment		11/1/2016	No		ES1700

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E1713	CL-187	PC BLDG J-26 BAY 1: COLUMN CL-187	Manufacturing and Materials Handling Equipment		11/1/2016	No		ES1700
E1721	D-172	PC BLDG J-26 (J-30): COLUMN D-172	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1722	D-173	PC BLDG J-26 (J-30): COLUMN D-173	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1729	MX-103	PC BLDG J-26 BAY 1: MIXER MX-103	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1730	MX-111	PC BLDG J-30: MIXER MX-111	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1731	RE-147	PC BLDG J-26 BAY 1: REACTOR RE-147 WITH PUMP P-1532	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1732	RE-171	PC BLDG J-26 BAY 1: REACTOR RE-171	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1733	RE-172	PC BLDG J-26 BAY 1: REACTOR RE-172 WITH PROCESS COOLER SB-181	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1734	RE-173	PC BLDG J-26 BAY 1: REACTOR RE-173	Manufacturing and Materials Handling Equipment	PCP970002	8/1/2013	No		ES1700

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E1735	RE-180	RE-180: PC BLDG J-26 Reactor RE-180	Manufacturing and Materials Handling Equipment		10/1/2014	No		ES1700
E1736	MX-117	PC-BLDG J-26 (J-30): MIXER MX-117	Manufacturing and Materials Handling Equipment		9/1/2015	No		ES1700
E1743	S-110	PC BLDG J-26 BAY 1: STILL S-110 WITH PUMP P-1425	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1744	S-122	PC BLDG J-26 BAY 1: MOLECULAR STILL S-122 WITH PUMPS P-1341 THRU P-1344 AND P-1351 THRU P-1354	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1745	S-123	PC BLDG J-26 BAY 1: DISTILLATION STILL S-123 WITH CONDENSER C-369 AND PUMP P-1440	Manufacturing and Materials Handling Equipment	PCP970002	9/1/2016	No		ES1700
E1758	T-331	PC BLDG J-26 BAY 1: SEPARATION TANK T-331 WITH CONDENSER CO-51	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1759	T-600	PC BLDG J-26 BAY 1: TANK T-600	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1760	T-601	PC BLDG J-26 BAY 1: TANK T-601	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700

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E1761	T-602	PC BLDG J-26 BAY 1: TANK T-602	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1762	T-603	PC BLDG J-26 BAY 1: TANK T-603	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1763	T-604	PC BLDG J-26 BAY 1: TANK T-604	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1764	T-605	PC BLDG J-26 BAY 1: TANK T-605	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1765	T-606	PC BLDG J-26 BAY 1: TANK T-606	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1766	T-607	PC-BLDG J-26 BAY 1: TANK T-607	Manufacturing and Materials Handling Equipment		9/1/2015			ES1700
E1768	TE-97	PC BLDG J-26 BAY 1: TANK TE-97	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1769	TE-98	PC BLDG J-26 BAY 1: TANK TE-98	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1770	TE-621	PC BLDG J-26 BAY 1: S-123 HOLD TANK TE-621	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700

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E1771	TE-622	PC BLDG J-26 BAY 1: RE-172 HOLD TANK TE-622	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1772	TE-635	PC BLDG J-26 BAY 1: RE-173 HOLD TANK TE-635	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1773	TS-122	PC BLDG J-26 BAY 1: TANK TS-122	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1774	TUBE TRAILER	PC BLDG J-26 BAY 1: TUBE TRAILER	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1775	BATH	PC BLDG J-26 BAY 1: VOLATILES BATH	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1776	XC-208	PC BLDG J-26 BAY 1: HEAT EXCHANGER XC-208	Manufacturing and Materials Handling Equipment	PCP970002		No		ES1700
E1778	TE-99	PC BLDG J-26 BAY 1: TANK TE-99	Manufacturing and Materials Handling Equipment		8/14/2012	No		ES1700
E1779	MX-1	PC-BLDG J-27: GREASE BLENDING MIXER MX-1	Manufacturing and Materials Handling Equipment		11/1/2018			ES1700
E1780	MX-109	PC-BLDG J-26 BAY 1: CAUSTIC MIXER MX-109	Manufacturing and Materials Handling Equipment			No		ES1700

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E1781	AD-2	PC-BLDG J-26 BAY 1: WW CARBON UNIT AD-2	Manufacturing and Materials Handling Equipment			No		ES1700
E1800	A-1	PC: BLDG 1470: 100 Gallon Autoclave A-1	Other Equipment	PCP020003		No		ES1800
E1801	RE-1	PC: BLDG 1470: 200 Gallon Glass Lined Reactor RE-1	Other Equipment	PCP020003	7/15/2013	No		ES1800
E1802	CL-1	PC: BLDG 1470: Distillation Column CL-1	Other Equipment	PCP020003	6/15/2015	No		ES1800
E1803	TE-3	PC: BLDG 1470: 100 Gallon Product Receiver TE-3	Other Equipment	PCP020003		No		ES1800
E1804	TE-4	PC: BLDG 1470: 100 Gallon Foreshot Receiver TE-4	Other Equipment	PCP020003		No		ES1800
E1806	TC-1	PC: BLDG 1470: 2000 Gallon Catch Tank TC-1	Other Equipment	PCP020003		No		ES1800
E1807	BL-1	PC: BLDG 1470: Building Air Ventilation System BL-1	Other Equipment	PCP020003		No		ES1800
E1808	RE-1B	PC: BLDG 1470: 200 Gallon Glass Lined Reactor RE-1B	Other Equipment	BOP220003	4/18/2023	No		
E2000	TW-40	PC BLDG J-25: TANK TW-40	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2001	A-135	PC BLDG J-25: REACTOR A-135	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000

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E2002	TE-137	PC BLDG J-25: RECEIVER TE-137	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2003	TE-138	PC BLDG J-25: RECEIVER TE-138	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2004	MX-99	PC BLDG J-26 BAY 2: MIXER MX-99	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2005	A-121	PC BLDG J-26 BAY 3: AUTOCLAVE A-121 WITH CONDENSER C-328	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2007	TE-610	PC BLDG J-26 BAY 3: DROWN TANK TE-610	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2008	N-241	PC BLDG J-26 BAY 3: FILTER N-241	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2009	K-161	PC BLDG J-26 BAY 3: AUTOCLAVE K-161	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2010	K-153	PC BLDG J-26 BAY 3: AUTOCLAVE K-153	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2013	MX-100	PC BLDG J-26 BAY 2: MIX TANK MX-100	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000

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E2014	RE-168	PC BLDG J-26 BAY 2: REACTOR RE-168	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2015	K-185	PC BLDG J-26 BAY 2: REACTOR K-185	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2016	CL-178	PC BLDG J-26 BAY 2: DISTILLATION COLUMN CL-178	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2017	TE-623	PC BLDG J-26 BAY 2: CIRCULATION VESSEL TE-623	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2018	K-181	PC BLDG J-26 BAY 2: CIRCULATION VESSEL K-181	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2019	T-326	PC BLDG J-26: PURGE TANK T-326	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2020	T-328	PC BLDG J-26 BAY 3: CIRCULATION VESSEL T-328 WITH CONDENSER C-322	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2021	FL-6	PC BLDG J-26 BAY 2: FLAKER FL-6	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000

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E2026	TS-74	PC BLDG J-26: VESSEL TS-74	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2169	C-320	PC BLDG J-26 : PIPELINE REACTOR RE-177 WITH WATER CONDENSER C-320 AND PROCESS CONDENSER C-326	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2264	TN-421	PC BLDG J-26 : TUBE TN-421	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2287	D-169	PC BLDG J-26 BAY 4: DRYER D-169	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2307	F-367	PC BLDG J-26 BAY 3: FILTER F-367	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2328	HB-246	PC BLDG J-26: STEAM MELT/HOT BOX HB-246	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2330	HB-248	PC BLDG J-26: STEAM MELT/HOT BOX HB-248	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2349	K-148	PC BLDG J-26 BAY 3: KETTLE K-148	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000

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E2350	K-149	PC BLDG J-26 BAY 3: KETTLE K-149	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2353	K-162	PC BLDG J-26 BAY 3: KETTLE K-162	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2357	K-176	PC BLDG J-26 BAY 3: KETTLE K-176	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2369	K-207	PC BLDG J-26 BAY 3: KETTLE K-207	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2371	K-213	PC BLDG J-26 BAY 3: KETTLE K-213	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2447	T-274	PC BLDG J-26 BAY 2: TANK T-274	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2460	T-327	PC BLDG J-26 BAY 2: TANK T-327	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2472	TC-152	PC BLDG J-26: TANK TC-152	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2476	TC-168	PC BLDG J-26: TANK TC-168	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000

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E2483	T-347	PC BLDG J-26 BAY 3: TANK T-347	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2489	TE-139	PC BLDG J-26 BAY 3: TANK TE-139	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2501	TE-612	PC BLDG J-26 BAY 3: TANK TE-612	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2514	TF-162	PC BLDG J-26 BAY 3: FEED TANK TF-162	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2517	TF-170	PC BLDG J-26 BAY 3: TANK TF-170	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2528	TM-60	PC BLDG J-26 BAY 3: TANK TM-60	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E2558	XC-63	PC BLDG J-26: HEAT EXCHANGER XC-63	Manufacturing and Materials Handling Equipment	PCP970002		No		ES2000
E3001	TS-27	SET: LIME SILO TS-27	Storage Vessel	97017/97733		No		
E3002	TS-28	SET: LIME SILO TS-28	Storage Vessel	97735/97734		No		
E3003	TS-29	SET: LIME SILO TS-29	Storage Vessel	118079/117378		No		
E3004	TS-30	SET: LIME SILO TS-30	Storage Vessel	97801/97800		No		

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E3015	TS-71A	SET: SLUDGE STORAGE TANK TS-71A	Manufacturing and Materials Handling Equipment	102323		No	6/28/2008	
E3016	TS-71B	SET: SLUDGE STORAGE TANK TS-71B	Manufacturing and Materials Handling Equipment	102325		No		
E3017	TS-71C	SET: SLUDGE STORAGE TANK TS-71C	Manufacturing and Materials Handling Equipment	102324		No		
E3018	FP-75	SET: SLUDGE HANDLING SYSTEM FP-75	Manufacturing and Materials Handling Equipment	93820		No		
E3019	FP-76	SET: SLUDGE HANDLING SYSTEM FP-76	Manufacturing and Materials Handling Equipment	93821		No		
E3020	FP-277	SET: SLUDGE HANDLING SYSTEM FP-277	Manufacturing and Materials Handling Equipment	93822		No		
E3021	CP-131	SET: CARBON UNLOADING SYSTEM	Manufacturing and Materials Handling Equipment	38355		No		
E3023	RE-26	SET: LIME SLAKING RE-26	Manufacturing and Materials Handling Equipment	41291		No		
E3025	T-75	SET: EQUALIZING (POLYMER) TANK T-75	Manufacturing and Materials Handling Equipment	17167		No		

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E3026	T-76	SET: EQUALIZING (POLYMER) TANK T-76	Manufacturing and Materials Handling Equipment	17168		No		
E3027	TS-126B	SET: HCL STORAGE TS-126B	Storage Vessel	117575		No	2/1/2010	
E3028	TS-126A	SET: H3PO4 STORAGE AS BIOMASS FOOD TS-126A	Storage Vessel	117575		No		
E3101	PUMP PIT	SET: PUMP PIT	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	
E3102	P606/P607	SET: PRIMARY WASTEWATER SUMP P606/P607	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	
E3103	GT-49	SET: PRIMARY FLOW SPLITTER GT-49	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	
E3108	CF-61	SET: PRIMARY CLARIFIER CF-61	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	
E3109	CF-62	SET: PRIMARY CLARIFIER CF-62	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	
E3110	CF-63	SET: PRIMARY CLARIFIER CF-63	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	

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E3111	CF-64	SET: PRIMARY CLARIFIER CF-64	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	
E3112	PT-231	SET: PRIMARY STILLING WELL PT-231	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	
E3115	AE-151	SET: SECONDARY AERATION AE-151	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	
E3116	AE-152	SET: SECONDARY AERATION AE-152	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	
E3117	AE-153	SET: SECONDARY AERATION AE-153	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	
E3118	GT-161	SET: SECONDARY CLARIFIER FLOW SPLITTER GT-161	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	
E3119	CF-161	SET: SECONDARY CLARIFIER CF-161	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	
E3120	CF-162	SET: SECONDARY CLARIFIER CF-162	Manufacturing and Materials Handling Equipment	P-1985		No	7/1/2014	
E3121	P-185	SET: WAS SCREW PUMPS P-185A/B	Manufacturing and Materials Handling Equipment	P-1985		Yes	1/1/1985	

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E3122	TS-500	SET: STORAGE TANK TS-500	Storage Vessel	99241		No	10/15/2010	
E3123	TS-501	SET: STORAGE TANK TS-501	Storage Vessel	99241		No	3/21/1991	
E3124	TS-502	SET: STORAGE TANK TS-502	Storage Vessel	99241		No	3/21/1991	
E3125	NE-41	SET: WW NEUTRALIZATION NE-41	Manufacturing and Materials Handling Equipment	98579		No	4/1/1974	
E3126	NE-42	SET: WW NEUTRALIZATION NE-42	Manufacturing and Materials Handling Equipment	98578		No	4/1/1974	
E3127	NE-43	SET: WW NEUTRALIZATION NE-43	Manufacturing and Materials Handling Equipment	98580		No	4/1/1974	
E3129	CF-163	SET: SECONDARY CLARIFIER CF-163	Manufacturing and Materials Handling Equipment	90941		No	6/1/1990	
E3130	AE-251	SET: TERTIARY AERATION TANK AE-251	Manufacturing and Materials Handling Equipment	93816		No	4/1/1991	
E3131	CF-261	SET: TERTIARY CLARIFIER #1 CF-261	Manufacturing and Materials Handling Equipment	93817		No	4/1/1991	

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E3132	CF-262	SET: TERTIARY CLARIFIER #2 CF-262	Manufacturing and Materials Handling Equipment	93818		No	4/1/1991	
E3133	GT-312	SET:Flow Splitter GT-312	Manufacturing and Materials Handling Equipment			No	8/1/2012	
E3134	DW-1	SET: Dewatering Pad	Manufacturing and Materials Handling Equipment			No		
E3207	GDF TANK	Gasoline Dispensing Facility (GDF) Tank	Storage Vessel	89170		No		
E3230	T-3	Head Diffuser Tank	Manufacturing and Materials Handling Equipment		5/1/2011	No		
E3250	TC-504	Landfill Leachate Tank	Storage Vessel		6/1/2008	No		
E3506	Gen #1	Generator #1	Fuel Combustion Equipment (Other)			No		
E3507	Gen #2	Generator #2	Fuel Combustion Equipment (Other)			No		
E3508	Gen #3	Generator #3	Fuel Combustion Equipment (Other)			No		
E3509	P-1	Pump #1	Other Equipment			No		
E3510	P-2	Pump #2	Other Equipment			No		
E3511	P-3	Pump #3	Other Equipment			No		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E5501	SP-326	ELASTOMERS-BLDG 745: SEPARATOR SP-326	Manufacturing and Materials Handling Equipment	095737		No		
E5502	D-344	ELASTOMERS-BLDG 745: DRYER D-344	Manufacturing and Materials Handling Equipment	095737		No		
E5503	D-345	ELASTOMERS-BLDG 745: DRYER D-345	Manufacturing and Materials Handling Equipment	095737		No		
E5504	CP-301	ELASTOMERS-BLDG 745: COMPRESSOR CP-301 WITH DISTANCE PIECE	Manufacturing and Materials Handling Equipment	096824		No		
E5505	TT L/UNLOAD	ELASTOMERS-BLDG 745: TFE/HCL TRAILER UNLOADING & TFE LOADING LINES	Manufacturing and Materials Handling Equipment	096824		No		
E5506	TS-305/C-306	ELASTOMERS-BLDG 745: TANK TS-305 WITH PROCESS CONDENSER C-306	Manufacturing and Materials Handling Equipment	096824		No		
E5507	BL-166	ELASTOMERS-BLDG 745: PELLET CONVEYING SYSTEM: BL-166	Manufacturing and Materials Handling Equipment	082332	10/1/2012	No		
E5509	TF-271	ELASTOMERS-BLDG 745: FEED TANK TF-271	Manufacturing and Materials Handling Equipment	085640		No		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E5510	TANK UN	ELASTOMERS-BLDG 745: VF2 TANKER UNLOADING	Manufacturing and Materials Handling Equipment	076000		No		
E5511	PACK	Elastomers packaging machine	Manufacturing and Materials Handling Equipment		10/30/2020			
E5512	D-273	ELASTOMERS-BLDG 745: DRYER D-273	Manufacturing and Materials Handling Equipment	071105		No		
E5513	TG-275	ELASTOMERS-BLDG 745: MANWAY TG-275	Manufacturing and Materials Handling Equipment	071105		No		
E5522	SP-277	ELASTOMERS-BLDG 745: SEPARATOR SP-277	Manufacturing and Materials Handling Equipment	040002		No		
E5523	TC-305	ELASTOMERS-BLDG 745: FILTRATE PROCESS TANK: TC-305	Manufacturing and Materials Handling Equipment	040002		No		
E5524	Mono Room	ELASTOMERS-BLDG 745: MONOMER RECOVERY ROOM	Manufacturing and Materials Handling Equipment	040002		No		
E5525	T-281, T-283	ELASTOMERS-BLDG 745: TANK SYSTEM T-281, T-283	Manufacturing and Materials Handling Equipment	040002		No		
E5526	CP/AC Room	ELASTOMERS-BLDG 745: COMPRESSOR /AUTOCLAVE ROOM	Manufacturing and Materials Handling Equipment	040002		No		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E5527	D-402	ELASTOMERS-BLDG 745: VITON CRUMB DRYER D-402	Manufacturing and Materials Handling Equipment	040002		No		
E5528	CY-408	ELASTOMERS-BLDG 745: MECHANICAL CONVEYER SYSTEM	Manufacturing and Materials Handling Equipment	040002		No		
E5550		TFE/CO2 SCRUBBER	Manufacturing and Materials Handling Equipment		10/1/2013	No		
E5551		CAUSTIC DISENGAGEMENT DRUM	Manufacturing and Materials Handling Equipment		10/1/2013			
E9001	TP-1	Temporary Pump #1	Other Equipment			No		
E10001	GR 14	60 kW Wilson Generator	Fuel Combustion Equipment (Other)		12/7/1992	Yes		
E10002	GR 15	60 kW Wilson Generator	Fuel Combustion Equipment (Other)		12/7/1992	Yes		
E11001	P-1F	Fire Pump P-1F	Emergency Generator		9/30/2011	No		
E11002	P-2F	Fire Pump P-2F	Emergency Generator		9/30/2011	No		
E11003	P-3F	Fire Pump P-3F	Emergency Generator		9/30/2011	No		
E12000	Ped GR 16	Cummins Diesel Generator	Emergency Generator			No		
E13001	CP-006	Portable air compressor CP-006	Fuel Combustion Equipment (Other)		9/7/2012	No		
E13002	CP-007	Portable air compressor CP-007	Fuel Combustion Equipment (Other)		9/7/2012	No		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E13003	CP-008	Portable air compressor CP-008	Fuel Combustion Equipment (Other)		9/7/2012	No		
E14001	CP-J25	Portable Air Compressor	Portable Engine		9/1/2017			
E16100	PS-1	PC-BLDG 1205: Phase Separator	Manufacturing and Materials Handling Equipment		12/1/2018	No		ES1600

65473 CHAMBERS WORKS BOP240002 E1017 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-19
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
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:	ASSOCIATED EQUIPMENT: TW-75&76: 1500 gal weigh tanks; CT-2: centrifuge. CONTROL DEVICES: C-10, J-19

65473 CHAMBERS WORKS BOP240002 E1018 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RECEIVER K-18
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	RECEIVER
Capacity:	5.00E+02
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:	CONTROL DEVICE: J-17

65473 CHAMBERS WORKS BOP240002 E904 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PC BLDG - 1207: Catch Tank/P-1469 Vacuum
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Vacuum Pump
Capacity:	4.00E+02
Units:	other units
Description (if other):	lb/hr - continously
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:	

65473 CHAMBERS WORKS BOP240002 E1028 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-14
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
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:	ASSOCIATED EQUIPMENT: TW-14, 150 gal. feed tank. CONTROL DEVICES: C-11, J-14

65473 CHAMBERS WORKS BOP240002 E1029 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-13
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
Capacity:	3.50E+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:	ASSOCIATED EQUIPMENT: CL-3: 78 ft^2 column; TC-3: 70 gal. catch tank; TE-8&9: 2000 gal. receivers, TE-10: 300 gal. receiver. CONTROL DEVICES: C-3, J-13

65473 CHAMBERS WORKS BOP240002 E1030 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RECEIVER TE-8
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	RECEIVER
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:	CONTROL DEVICE: J-13

65473 CHAMBERS WORKS BOP240002 E1031 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RECEIVER TE-9
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	RECEIVER
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:	CONTROL DEVICE: J-13

65473 CHAMBERS WORKS BOP240002 E1032 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RECEIVER TE-10
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	RECEIVER
Capacity:	3.00E+02
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:	CONTROL DEVICE: J-13

65473 CHAMBERS WORKS BOP240002 E1033 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RECEIVER TS-9
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	RECEIVER
Capacity:	2.00E+02
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:	ASSOCIATED EQUIPMENT: K-9: 500 gal. kettle. CONTROL DEVICE: J-9

65473 CHAMBERS WORKS BOP240002 E1034 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-9
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
Capacity:	5.00E+02
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:	CONTROL DEVICES: C-5, J-9

65473 CHAMBERS WORKS BOP240002 E906 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PC BLDG - 1207: TE-631 Storage Tank
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	storage tank
Capacity:	4.00E+03
Units:	gallons
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:	Tank vent is normally closed. Tank is not vented during normal operation. Tank pressure will increase as tank is filled, and tank pressure will decrease as tank is emptied.

65473 CHAMBERS WORKS BOP240002 E1036 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-4
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1037 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RECEIVER K-6
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1038 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RECEIVER K-5
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	RECEIVER
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:	

65473 CHAMBERS WORKS BOP240002 E1039 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-8
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
Capacity:	5.00E+02
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:	ASSOCIATED EQUIPMENT: TE-11: 150 gal. receiver; N-3: covered nustch; B-3: 300 gal. blowcase. CONTROL DEVICE: J-7

65473 CHAMBERS WORKS BOP240002 E1041 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE T-8
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
Capacity:	2.70E+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:	ASSOCIATED EQUIPMENT: K-5: 1000 gal. receiver; TW-75&76: 1500 gal weigh tanks; CT-3: centrifuge. CONTROL DEVICES: C-13, J-7

65473 CHAMBERS WORKS BOP240002 E1002 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	THAWROOM
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Thawroom
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:	NO CONTROL DEVICE

65473 CHAMBERS WORKS BOP240002 E1044 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	6,250
Units:	gallons
Ground Location:	
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	SILVER METALLIC
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	14.00
Length (ft):	
Width (ft):	
Diameter (ft):	8.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	75.00
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?	Yes
Does the storage vessel	

65473 CHAMBERS WORKS BOP240002 E1044 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	No
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:	STORAGE TANK TS-55

65473 CHAMBERS WORKS BOP240002 E1045 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	6,500
Units:	gallons
Ground Location:	
Is the Shell of the Equipment Exposed to Sunlight?	No
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	10.08
Length (ft):	
Width (ft):	
Diameter (ft):	11.92
Other Dimension	
Description:	Average Vapor Space including Roof Volume
Value:	3.00
Units:	feet
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	50.00
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	

65473 CHAMBERS WORKS BOP240002 E1045 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	
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:	Chemical being stored: Polymethylcrylate Latex (Anionic), Methacrylate Slurry in water. Color: Yellow.

65473 CHAMBERS WORKS BOP240002 E901 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Phase Separator (PS-1)
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Phase separator tank
Capacity:	2.00E+00
Units:	gallons
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:	Tank will separate hydrogen gas from condensed liquid returning from C299 during reaction.

65473 CHAMBERS WORKS BOP240002 E1003 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	THAWROOM
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Thawbox
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:	NO CONTROL DEVICE

65473 CHAMBERS WORKS BOP240002 E1004 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	THAWROOM
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Thawbox
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:	NO CONTROL DEVICE

65473 CHAMBERS WORKS BOP240002 E1005 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	THAWROOM
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	THAW BOX
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:	NO CONTROL DEVICE

65473 CHAMBERS WORKS BOP240002 E1007 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-11
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Kettle
Capacity:	3.00E+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:	CONTROL DEVICES: C-15, SB-13, J-1

65473 CHAMBERS WORKS BOP240002 E1008 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-1
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Kettle
Capacity:	3.00E+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:	CONTROL DEVICES: C-14, SB-13, J-1

65473 CHAMBERS WORKS BOP240002 E1009 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-2
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Kettle
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:	ASSOCIATED EQUIPMENT: K-10: 500 gal. receiver; CL-1: 24 ft^2 column; TM-8: 10 gal. feed; TE-3, 700 gal. receiver. CONTROL DEVICES: C-7, J-9

65473 CHAMBERS WORKS BOP240002 E1010 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RECEIVER K-10
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	RECEIVER
Capacity:	5.00E+02
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:	CONTROL DEVICES: J-9

65473 CHAMBERS WORKS BOP240002 E1012 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-15
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
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:	ASSOCIATED EQUIPMENT: TW-16: 500 gal. feed tank; K-16, 500 gal. receiver; HM-3: homogenizer. CONTROL DEVICES: C-8, J-15

65473 CHAMBERS WORKS BOP240002 E1013 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RECEIVER K-16
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	RECEIVER
Capacity:	5.00E+02
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:	CONTROL DEVICE: J-16

65473 CHAMBERS WORKS BOP240002 E1014 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-17
Manufacturer:	Pfaulder
Model:	RA-60-1000-100-90 Glass Lined Steel RA Seri
Type of Manufacturing and Materials Handling Equipment:	KETTLE
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:	ASSOCIATED EQUIPMENT: TW-16: 500 gal. feed tank; K-18: 500 gal receiver; HM-3&4: homogenizers; B-5 125 gal. blowcase; TE-86: 5 gal. feed tank. CONTROL DEVICES: C-9, J-17

65473 CHAMBERS WORKS BOP240002 E1046 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	6,500
Units:	gallons
Ground Location:	
Is the Shell of the Equipment Exposed to Sunlight?	No
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	10.08
Length (ft):	
Width (ft):	
Diameter (ft):	11.92
Other Dimension	
Description:	Average Vapor Space including Roof Volume
Value:	3.00
Units:	feet
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	50.00
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	

65473 CHAMBERS WORKS BOP240002 E1046 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	
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:	Chemical being stored: "Zepel" K Crude, Polymer Dispersion. Color: Yellow

65473 CHAMBERS WORKS BOP240002 E1047 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	6,500
Units:	gallons
Ground Location:	
Is the Shell of the Equipment Exposed to Sunlight?	No
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	10.08
Width (ft):	
Diameter (ft):	11.92
Other Dimension	
Description:	Average Vapor Space Height including Roof Vo
Value:	3.00
Units:	feet
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	50.00
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?	

65473 CHAMBERS WORKS BOP240002 E1047 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	
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:	Chemical being stored: TLF-4029B, Polymer Dispersion. Color: Yellow

65473 CHAMBERS WORKS BOP240002 E1053 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	10,000
Units:	gallons
Ground Location:	
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Light)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	12.00
Length (ft):	
Width (ft):	
Diameter (ft):	12.00
Other Dimension	
Description:	Average Vapor Space Height, including Roof V
Value:	3.50
Units:	feet
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	50.00
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?	

65473 CHAMBERS WORKS BOP240002 E1053 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	Yes
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:	Chemical being stored: 2-Diethyl amino ethyl methacrylate, C10H19NO2

65473 CHAMBERS WORKS BOP240002 E1058 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-4
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	2.35E+02
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:	

65473 CHAMBERS WORKS BOP240002 E1060 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-29
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	blending tank
Capacity:	5.50E+03
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1062 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-30
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	STANDARDIZER
Capacity:	2.43E+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:	

65473 CHAMBERS WORKS BOP240002 E1063 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	MEASURING TANK TM-17
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	MEASURING TANK
Capacity:	2.10E+02
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:	

65473 CHAMBERS WORKS BOP240002 E1064 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-45
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	STANDARDIZER
Capacity:	9.50E+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:	

65473 CHAMBERS WORKS BOP240002 E1303 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	DuPont
Model:	
Type of Manufacturing and Materials Handling Equipment:	jacketed agitated reactor
Capacity:	5.60E+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:	

65473 CHAMBERS WORKS BOP240002 E1305 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	DuPont
Model:	
Type of Manufacturing and Materials Handling Equipment:	Vertical, cylindrical, agitated reactor
Capacity:	5.70E+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:	modified by DuPont, includes associated process condenser C-18

65473 CHAMBERS WORKS BOP240002 E1306 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	DuPont
Model:	
Type of Manufacturing and Materials Handling Equipment:	Vertical, cylindrical, jacketed agitated reactor
Capacity:	1.23E+02
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:	

65473 CHAMBERS WORKS BOP240002 E1307 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	DuPont
Model:	
Type of Manufacturing and Materials Handling Equipment:	Vertical, cylindrical, jacketed agitated reactor
Capacity:	8.00E+02
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:	

65473 CHAMBERS WORKS BOP240002 E1310 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	DuPont
Model:	
Type of Manufacturing and Materials Handling Equipment:	vertical, cylindrical, jacketed agitated reactor
Capacity:	3.50E+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:	

65473 CHAMBERS WORKS BOP240002 E1311 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	PACKOUT STATION
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:	

65473 CHAMBERS WORKS BOP240002 E1312 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	PACKOUT STATION
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:	

65473 CHAMBERS WORKS BOP240002 E1313 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	PACKOUT STATION
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:	

65473 CHAMBERS WORKS BOP240002 E1314 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	horizontal digital 1-ton cylinder packout
Capacity:	2.00E+03
Units:	other units
Description (if other):	lb
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:	

65473 CHAMBERS WORKS BOP240002 E1315 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	DuPont
Model:	
Type of Manufacturing and Materials Handling Equipment:	receiving tank
Capacity:	2.00E+03
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1316 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION
Manufacturer:	DuPont
Model:	
Type of Manufacturing and Materials Handling Equipment:	receiving tank
Capacity:	2.00E+03
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1317 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Not Applicable
Manufacturer:	RAS Process equipment
Model:	Not Applicable
Type of Manufacturing and Materials Handling Equipment:	receiving tank
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:	

65473 CHAMBERS WORKS BOP240002 E1318 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	DuPont
Model:	
Type of Manufacturing and Materials Handling Equipment:	Vertical, cylindrical, jacketed agitated standardi
Capacity:	5.62E+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:	Reactor system modified by DuPont, includes Standardizer T-54 and associated process condenser C-16

65473 CHAMBERS WORKS BOP240002 E1319 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	STORAGE TANK SYSTEM TS-17/16
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.60E+04
Units:	gallons
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:	two process vessels manifolded together

65473 CHAMBERS WORKS BOP240002 E1322 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	Joseph Oats & Sons
Model:	
Type of Manufacturing and Materials Handling Equipment:	vertical, cylindrical, jacketed agitated autoclave
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:	modified by DuPont, includes associated column CL-14 and process condenser C-14

65473 CHAMBERS WORKS BOP240002 E1400 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR A-10
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Titanium-clad Reactor
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:	

65473 CHAMBERS WORKS BOP240002 E1402 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SEPARATOR SP-10
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.35E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1403 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SEPARATOR SP-11
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.25E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1404 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Tank A-15
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	nickel clad hold tank
Capacity:	1.62E+03
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1405 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Receiver DV-40
Manufacturer:	DeDietrich
Model:	
Type of Manufacturing and Materials Handling Equipment:	glass lined kettle
Capacity:	1.00E+03
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1408 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Kettle K-40
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	glass lined reactor
Capacity:	3.00E+03
Units:	gallons
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:	associated equipment; CT-1 centrifuge, HM-4 homogenizer

65473 CHAMBERS WORKS BOP240002 E1409 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR K-50
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Reactor
Capacity:	2.15E+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:	

65473 CHAMBERS WORKS BOP240002 E1411 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SEPARATOR SP-50
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.35E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1412 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SEPARATOR SP-51
Manufacturer:	RAS
Model:	
Type of Manufacturing and Materials Handling Equipment:	Distillate receiver
Capacity:	3.83E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1413 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Tank S-30
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Monel-clad still
Capacity:	4.20E+03
Units:	gallons
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:	associated equipment: HM-1 homogenizer

65473 CHAMBERS WORKS BOP240002 E1415 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	HOMOGENIZER HM-1
Manufacturer:	Manton-Caulin
Model:	600MC-18-8TBS
Type of Manufacturing and Materials Handling Equipment:	Homogenizer
Capacity:	5.00E+02
Units:	other units
Description (if other):	gal/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:	

65473 CHAMBERS WORKS BOP240002 E1416 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Tank TE-30
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	receiver
Capacity:	4.00E+03
Units:	gallons
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:	associated equipment: HM-1 homogenizer

65473 CHAMBERS WORKS BOP240002 E1417 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Tank S-60
Manufacturer:	DeDeitrich
Model:	
Type of Manufacturing and Materials Handling Equipment:	glass-lined still
Capacity:	4.40E+03
Units:	gallons
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:	associated equipment: HM-2 homogenizer

65473 CHAMBERS WORKS BOP240002 E1418 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	HOMOGENIZER HM-2
Manufacturer:	Manton Caulin
Model:	600MC-18-8TBS
Type of Manufacturing and Materials Handling Equipment:	Homogenizer
Capacity:	5.00E+02
Units:	other units
Description (if other):	gal/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:	

65473 CHAMBERS WORKS BOP240002 E1419 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Tank TE-60
Manufacturer:	DeDeitrich
Model:	
Type of Manufacturing and Materials Handling Equipment:	receiver, glass-lined
Capacity:	4.40E+03
Units:	gallons
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:	associated equipment: HM-2 homogenizer

65473 CHAMBERS WORKS BOP240002 E1420 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PC-BLDG 185: Tank T-70
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1423 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,300
Units:	gallons
Ground Location:	
Is the Shell of the Equipment Exposed to Sunlight?	No
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	9.00
Length (ft):	
Width (ft):	
Diameter (ft):	8.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	50.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical 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?	Yes
Does the storage vessel	

65473 CHAMBERS WORKS BOP240002 E1423 (Storage Vessel)
Print Date: 6/24/2025

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:

65473 CHAMBERS WORKS BOP240002 E1424 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	RAS
Model:	
Type of Manufacturing and Materials Handling Equipment:	Accumulator Tank
Capacity:	2.60E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1501 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Still, Glass-lined vessel w/ jacket & agitator
Capacity:	2.60E+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:	

65473 CHAMBERS WORKS BOP240002 E1502 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	Richard Armstrong
Model:	Tube & Shell
Type of Manufacturing and Materials Handling Equipment:	Condenser
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:	

65473 CHAMBERS WORKS BOP240002 E1503 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Receiver, stainless steel agitated vessel
Capacity:	1.68E+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:	

65473 CHAMBERS WORKS BOP240002 E1506 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Receiver
Capacity:	4.00E+02
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:	

65473 CHAMBERS WORKS BOP240002 E1508 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Agitated, glass-lined wash vessel
Capacity:	2.60E+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:	Agitated glass-lined vessel

65473 CHAMBERS WORKS BOP240002 E1509 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Reactor
Capacity:	7.50E+02
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:	Agitated (48 RPM) water-jacketed, glass-lined steel vessel

65473 CHAMBERS WORKS BOP240002 E1510 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Hydrolyzer
Capacity:	3.40E+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:	Agitated jecketed glass-lined steel vessel. Equipped w/ cooling water, brine or low pressure steam for temp. control.

65473 CHAMBERS WORKS BOP240002 E1511 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	5,250
Units:	gallons
Ground Location:	
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	13.00
Length (ft):	
Width (ft):	
Diameter (ft):	8.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Other
Description (if other):	top diptube
Maximum Design Fill Rate:	30.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
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?	

65473 CHAMBERS WORKS BOP240002 E1511 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	
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:	VENT THROUGH FLAME ARRESTOR, horizontal, for Telomer BN Alcohol TBC Grade Storage Tank

65473 CHAMBERS WORKS BOP240002 E1512 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	6,000
Units:	gallons
Ground Location:	
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	15.00
Length (ft):	
Width (ft):	
Diameter (ft):	8.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	45.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
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?	

65473 CHAMBERS WORKS BOP240002 E1512 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	
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:	VENTED TO SCRUBBER TG-65, carbon steel tank, horizontal

65473 CHAMBERS WORKS BOP240002 E1513 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	7,500
Units:	gallons
Ground Location:	
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	SILVER
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	19.00
Length (ft):	
Width (ft):	
Diameter (ft):	8.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	50.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
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?	

65473 CHAMBERS WORKS BOP240002 E1513 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	
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:	RUPTURE DISK / RELIEF VALVE AT 50 PSIG TO SCRUBBER, carbon steel, horizontal, 65% Oleum

65473 CHAMBERS WORKS BOP240002 E1514 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Hastelloy
Manufacturer:	
Model:	Model # 1350 Hastelloy C solid bowl scroll
Type of Manufacturing and Materials Handling Equipment:	Centrifuge
Capacity:	3.14E+03
Units:	other units
Description (if other):	RPM
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:	7" diameter

65473 CHAMBERS WORKS BOP240002 E1516 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	jacketed cone bottom vessel
Type of Manufacturing and Materials Handling Equipment:	Feed Tank
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:	

65473 CHAMBERS WORKS BOP240002 E1518 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	jacketed single piece glass-lined vessel
Type of Manufacturing and Materials Handling Equipment:	Precipitator
Capacity:	4.40E+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:	TM-60 is an associated piece of equipment

65473 CHAMBERS WORKS BOP240002 E1519 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	steam traced carbon steel tank equipped with a
Type of Manufacturing and Materials Handling Equipment:	Measuring Tank 65% Oleum
Capacity:	4.86E+02
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:	The correct amount of oleum is measured volumetrically in the tank with any excess overflowing back to the oleum storage tank (TS-42)

65473 CHAMBERS WORKS BOP240002 E1521 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Fan
Capacity:	7.00E+02
Units:	other units
Description (if other):	cfm
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:	

65473 CHAMBERS WORKS BOP240002 E1524 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	air-intake screen:An-Cor Industrial Plastics, Inc
Model:	FRP w/ 2 plexiglass windows and an air intake
Type of Manufacturing and Materials Handling Equipment:	Drumming booth
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:	Provides enclosed area for loading 5-gallon pails with iodine from the centrifuge.

65473 CHAMBERS WORKS BOP240002 E1528 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Decanter
Capacity:	3.90E+01
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:	

65473 CHAMBERS WORKS BOP240002 E1532 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	304 stainless steel tank on weigh cells
Type of Manufacturing and Materials Handling Equipment:	Feed Tank
Capacity:	2.00E+02
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:	An overflow nozzle is provided at the 148.5 fallon level with the excess Telomer B returning to the Telomer B storage

65473 CHAMBERS WORKS BOP240002 E1534 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Blow Off Box
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:	

65473 CHAMBERS WORKS BOP240002 E1536 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Flow Splitter
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:	

65473 CHAMBERS WORKS BOP240002 E1537 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	Eductor system
Type of Manufacturing and Materials Handling Equipment:	Sodium Sulfite Feeder
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:	Eductor system w/ 2 cu.ft. 316-stainless stell hopper & nozzle. Sodium Sulfite is slurried as it is sucked into the nozzle & pumped directly to the hydrolyzer. (K-44)

65473 CHAMBERS WORKS BOP240002 E1538 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	15,445
Units:	gallons
Ground Location:	
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	10.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	45.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
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?	

65473 CHAMBERS WORKS BOP240002 E1538 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	
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:	5 PSIG RELIEF DEVICE, carbon steel tank

65473 CHAMBERS WORKS BOP240002 E1539 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Autoclave A-14
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	autoclave
Capacity:	5.04E+02
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:	

65473 CHAMBERS WORKS BOP240002 E1540 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Autoclave A-1
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	autoclave
Capacity:	1.70E+03
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1560 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Surge Tank
Capacity:	1.01E+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:	

65473 CHAMBERS WORKS BOP240002 E1561 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Sump
Capacity:	1.00E+05
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?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1562 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Surge Tank
Capacity:	5.00E+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?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1563 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Slurry Mix Tank
Capacity:	2.20E+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?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1564 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Slurry Mix Tank
Capacity:	2.20E+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?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1565 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Tank
Capacity:	5.00E+02
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?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1566 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Surge Tank
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?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1567 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Oberlin Filter
Capacity:	1.00E+01
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?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1568 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Carbon Adsortpion System
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?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1601 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-AA
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1602 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-BB
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1603 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-CC
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1604 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-DD
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1605 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-EE
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1606 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-FF
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1607 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-GG
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1608 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-HH
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1609 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-II
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1610 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-JJ
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1611 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BC-1
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1612 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-1
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1613 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-42
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1614 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-47
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1615 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PACKOUT STATION BD-52
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1616 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	STEAM COIL PLATFORM BT-X
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1617 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	THAW BOOTH BT-7
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1623 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	HOT AIR TRAY DRYER D-115
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1624 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	HOT AIR TRAY DRYER D-116
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1626 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	DRYER D-164
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	16" dia. X 60" long SS Dryer

65473 CHAMBERS WORKS BOP240002 E1627 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	DRYER D-165
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	16" dia. X 60" long SS Dryer

65473 CHAMBERS WORKS BOP240002 E1628 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	DRYER D-166
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	16" dia. X 60" long SS Dryer

65473 CHAMBERS WORKS BOP240002 E1629 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	DRYER D-167
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	16" dia. X 60" long SS Dryer

65473 CHAMBERS WORKS BOP240002 E1630 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PORTABLE NUTSCH F-126
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	5.00E+00
Units:	other units
Description (if other):	ft. diameter
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:	

65473 CHAMBERS WORKS BOP240002 E1631 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	RAS
Model:	
Type of Manufacturing and Materials Handling Equipment:	Reactor
Capacity:	2.14E+02
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:	The reactor is used to hydrogenate HFA to form HFIP. Reactor is 1.5' diameter, 16.2' long. The reactor will be vented to scrubber SB-166 during maintenance.

65473 CHAMBERS WORKS BOP240002 E1632 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	Newarc Welding & Graham
Model:	
Type of Manufacturing and Materials Handling Equipment:	Flash tank
Capacity:	6.00E+00
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:	Tank is used for the removal of hydrogen in the HFIP crude production process. Excess hydrogen is flashed off by dropping the pressure to <5 psig across a control valve and into the tank. Vented hydrogen is directed to water scrubber SB-166.

65473 CHAMBERS WORKS BOP240002 E1633 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	RAS
Model:	
Type of Manufacturing and Materials Handling Equipment:	Tank
Capacity:	1.00E+02
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:	Agitated, baffled, jacketed vessel. Provides boil-up for HFA recovery column.

65473 CHAMBERS WORKS BOP240002 E1634 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	STOKES GRANULATOR G-19
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1635 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	Newarc Welding
Model:	
Type of Manufacturing and Materials Handling Equipment:	Distillation Column
Capacity:	5.20E-01
Units:	other units
Description (if other):	cubic feet of packing
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:	Provides separation of high boiling components from catalyst heel so HFA can be recovered as useful product.

65473 CHAMBERS WORKS BOP240002 E1636 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	NICKEL CLAD REACTOR K-33
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	8.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1637 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED REACTOR K-61
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	3.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1638 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED REACTOR K-69
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	3.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1639 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED REACTOR K-132
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	3.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1640 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SS REACTOR K-159
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1641 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED REACTOR K-169
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1642 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED REACTOR K-172
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	3.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1643 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED REACTOR K-180
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1644 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED REACTOR K-191
Manufacturer:	Pfaudler
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	3.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1645 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED REACTOR K-192
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	5.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1646 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED REACTOR K-193
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	7.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1647 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	CARPENTER 20 REACTOR K-195
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	9.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1648 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	CARPENTER 20 REACTOR K-196
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	5.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1649 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED REACTOR K-203
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1650 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED REACTOR K-204
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1651 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SS PORTABLE NUTSCH N-33
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	6.00E+00
Units:	other units
Description (if other):	feet in diameter
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:	

65473 CHAMBERS WORKS BOP240002 E1652 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Condenser
Capacity:	5.30E+01
Units:	other units
Description (if other):	sq. ft. heat transfer area
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:	Condenses column overheads to produce reflux and distillate. Has inert purge for removal of non-condensable materials.

65473 CHAMBERS WORKS BOP240002 E1653 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SS SEPARATOR SP-102
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1654 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	RAS
Model:	
Type of Manufacturing and Materials Handling Equipment:	Recovery Tank
Capacity:	1.50E+01
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:	Provides stable reflux flow

65473 CHAMBERS WORKS BOP240002 E1657 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	BRICK LINED KETTLE T-130
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	8.40E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1658 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SCRUBBER TANK T-216
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1659 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	STAINLESS STEEL KETTLE T-270
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	8.80E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1660 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	ALUMINUM TANK T-279
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.94E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1661 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED KETTLE TS-98
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	7.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1662 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	GLASS LINED RECEIVER K-20
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	5.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1663 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	FILTER F-340
Manufacturer:	ROSENMUND
Model:	FILTER
Type of Manufacturing and Materials Handling Equipment:	FILTER
Capacity:	1.00E+00
Units:	other units
Description (if other):	SQUARE METER
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:	

65473 CHAMBERS WORKS BOP240002 E1664 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK
Manufacturer:	OMNI FABRICATORS, INC.
Model:	TANK
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	6.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1665 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	FEED TANK TM63
Manufacturer:	A.B. DUFFY
Model:	
Type of Manufacturing and Materials Handling Equipment:	FEED TANK
Capacity:	5.50E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1666 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	STORAGE TANK T-351
Manufacturer:	WM. A. SCHMIDT
Model:	
Type of Manufacturing and Materials Handling Equipment:	STORAGE TANK
Capacity:	7.54E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1667 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	FILTER F-431
Manufacturer:	MOTT CORPORATION
Model:	HyDulse LSI (842040-22-25-1-ABB)
Type of Manufacturing and Materials Handling Equipment:	FILTER
Capacity:	1.30E+02
Units:	gallons
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:	46 FT2 FILTER AREA

65473 CHAMBERS WORKS BOP240002 E1668 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR A-206 AUTOCLAVE
Manufacturer:	WYATT INDUSTRIES
Model:	
Type of Manufacturing and Materials Handling Equipment:	REACTION
Capacity:	4.53E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1669 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	CONDENSER C-390
Manufacturer:	RAS PROCESS EQUIPMENT
Model:	Shell & Tube Heat Exchanger
Type of Manufacturing and Materials Handling Equipment:	CONDENSER
Capacity:	2.10E+01
Units:	other units
Description (if other):	FT^2
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:	

65473 CHAMBERS WORKS BOP240002 E1672 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Packed Bed Adsorber AD-1
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1673 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Packed Bed Adsorber AD-2
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1674 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Tank
Capacity:	4.20E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1675 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Tank
Capacity:	4.20E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1676 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR RE-1
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1679 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR RE-2
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1681 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Catch Tank TC-6
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1682 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	DRYER D-1
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1683 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	nickel clad reactor K-33
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	kettle
Capacity:	8.00E+02
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:	

65473 CHAMBERS WORKS BOP240002 E1686 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	HFIP condenser C-400
Manufacturer:	RAS process equipment
Model:	
Type of Manufacturing and Materials Handling Equipment:	shell and tube process condenser
Capacity:	1.36E+01
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:	

65473 CHAMBERS WORKS BOP240002 E1687 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	HFIP condenser C-401 heliflow
Manufacturer:	Graham corporation
Model:	12-6c6c-12 VCON
Type of Manufacturing and Materials Handling Equipment:	coil condenser
Capacity:	2.80E+00
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:	

65473 CHAMBERS WORKS BOP240002 E1688 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	HFIP column CL-184
Manufacturer:	Newarc Welding
Model:	
Type of Manufacturing and Materials Handling Equipment:	distillation column
Capacity:	6.00E+01
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:	column height = 19 ft column diameter = 8 inches

65473 CHAMBERS WORKS BOP240002 E1689 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	HFIP bagfilter F-435
Manufacturer:	Ronningen-Petter
Model:	SS6-224-SE
Type of Manufacturing and Materials Handling Equipment:	process bagfilter
Capacity:	9.00E+00
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:	

65473 CHAMBERS WORKS BOP240002 E1690 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	HFIP tank TE-640
Manufacturer:	Pottstown metal
Model:	
Type of Manufacturing and Materials Handling Equipment:	vertical tank
Capacity:	2.64E+02
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:	

65473 CHAMBERS WORKS BOP240002 E1691 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	HFIP vaporizer V-64
Manufacturer:	RAS process equipment
Model:	
Type of Manufacturing and Materials Handling Equipment:	vaporizer
Capacity:	3.84E+02
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:	

65473 CHAMBERS WORKS BOP240002 E1692 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	C-18
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	shell and tube process condenser
Capacity:	
Units:	other units
Description (if other):	size = 4.0 ft x 10-3/4 inches
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:	

65473 CHAMBERS WORKS BOP240002 E1693 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Condenser C-309
Manufacturer:	Doyle and Roth
Model:	
Type of Manufacturing and Materials Handling Equipment:	shell and tube process condenser
Capacity:	
Units:	other units
Description (if other):	size = 4.0 ft x 10-3/4 inches
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:	

65473 CHAMBERS WORKS BOP240002 E1695 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	DISTILLATE HOLD TANK TC-2 WITH PROCE
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E1696 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	BPAF DROWN TANK T-325
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Tank
Capacity:	7.50E+02
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:	Used for crystallization and washing of BPAF. Operated at pressures ranging from full vacuum to 150 psig and temperatures ranging from 5 to 150C.

65473 CHAMBERS WORKS BOP240002 E1697 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	5,200
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	14.00
Width (ft):	
Diameter (ft):	7.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	
Description (if other):	
Maximum Design Fill Rate:	50.00
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?	No
Does the storage vessel	

65473 CHAMBERS WORKS BOP240002 E1697 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	Yes
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?	No
Comments:	

65473 CHAMBERS WORKS BOP240002 E1698 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	5,200
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	14.00
Width (ft):	
Diameter (ft):	7.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	
Description (if other):	
Maximum Design Fill Rate:	50.00
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?	No
Does the storage vessel	

65473 CHAMBERS WORKS BOP240002 E1698 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	Yes
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?	No
Comments:	

65473 CHAMBERS WORKS BOP240002 E1701 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN CL-31
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?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	COLUMN SIZE: DIAMETER-4", HEIGHT-6"""""

65473 CHAMBERS WORKS BOP240002 E1702 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN CL-32
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?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	COLUMN SIZE: DIAMETER-4", HEIGHT-6""

65473 CHAMBERS WORKS BOP240002 E1703 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN CL-33
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?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	COLUMN SIZE: DIAMETER-4", HEIGHT-3""

65473 CHAMBERS WORKS BOP240002 E1704 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN CL-34
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?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	COLUMN SIZE: DIAMETER-4", HEIGHT-3""

65473 CHAMBERS WORKS BOP240002 E1705 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN CL-105
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?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	COLUMN SIZE: DIAMETER-4", HEIGHT-30""

65473 CHAMBERS WORKS BOP240002 E1706 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN CL-171
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?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	COLUMN SIZE: DIAMETER-8", HEIGHT-10""

65473 CHAMBERS WORKS BOP240002 E1707 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN CL-172
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?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	COLUMN SIZE: DIAMETER-8", HEIGHT-10"

65473 CHAMBERS WORKS BOP240002 E1708 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN CL-173
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?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	COLUMN SIZE: DIAMETER-8", HEIGHT-10""

65473 CHAMBERS WORKS BOP240002 E1711 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN CL-185
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?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	COLUMN SIZE: DIAMETER-8", HEIGHT-10""

65473 CHAMBERS WORKS BOP240002 E1712 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN CL-186
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?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	COLUMN SIZE: DIAMETER-8", HEIGHT-10""

65473 CHAMBERS WORKS BOP240002 E1713 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN CL-187
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?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	COLUMN SIZE: DIAMETER-8", HEIGHT-10""

65473 CHAMBERS WORKS BOP240002 E1721 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN D-172
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	COLUMN
Capacity:	
Units:	
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:	8"" x 4"

65473 CHAMBERS WORKS BOP240002 E1722 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLUMN D-173
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	COLUMN
Capacity:	
Units:	
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:	8"" x 4"

65473 CHAMBERS WORKS BOP240002 E1729 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	MIXER MX-103
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1730 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	MIXER MX-111
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1731 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR RE-147 WITH PUMP P-1532
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	REACTOR
Capacity:	2.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1732 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR RE-171
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1733 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR RE-172
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1734 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR RE-173
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.40E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1735 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	Newark Welding and Fabrication
Model:	
Type of Manufacturing and Materials Handling Equipment:	Reactor
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1736 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	Charles Ross & Son
Model:	PDM-40
Type of Manufacturing and Materials Handling Equipment:	Mixer
Capacity:	4.70E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1743 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	STILL S-110
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1744 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	MOLECULAR STILL S-122
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.00E+02
Units:	other units
Description (if other):	LBS PER HOUR
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:	

65473 CHAMBERS WORKS BOP240002 E1745 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	DISTILLATION STILL S-123
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1758 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SEPARATION TANK T-331 WITH CONDENSE
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	2.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1759 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-600
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	3.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1760 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-601
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	2.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1761 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-602
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	2.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1762 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-603
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	2.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1763 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-604
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	2.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1764 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-605
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	2.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1765 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-606
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	2.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1766 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	RAS
Model:	
Type of Manufacturing and Materials Handling Equipment:	Storage Tank
Capacity:	3.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1768 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK TE-97
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	6.50E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1769 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK TE-98
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	6.50E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1770 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	S-123 HOLD TANK TE-621
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	2.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1771 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RE-172 HOLD TANK TE-622
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	2.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1772 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RE-173 HOLD TANK TE-635
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	1.50E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1773 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK TS-122
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	
Units:	
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:	52" x 31" x 35"

65473 CHAMBERS WORKS BOP240002 E1774 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR RE-146
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.70E+03
Units:	other units
Description (if other):	LBS OF GAS
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:	

65473 CHAMBERS WORKS BOP240002 E1775 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	VOLATILES BATH
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.50E+00
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:	

65473 CHAMBERS WORKS BOP240002 E1776 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	HEAT EXCHANGER XC-208
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	HEAT EXCHANGER
Capacity:	
Units:	
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:	2 ft^2

65473 CHAMBERS WORKS BOP240002 E1778 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Settling Vessel
Capacity:	1.30E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1779 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PowerMix
Manufacturer:	Charles Ross & Son Co.
Model:	PDM 10
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1780 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	STATIC CAUSTIC MIXER
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	STATIC MIXER
Capacity:	2.80E-01
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:	2" pipe that is 20.25" long

65473 CHAMBERS WORKS BOP240002 E1781 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	CARBON ADSORBER
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	ADSORBER
Capacity:	5.50E+01
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?	Yes
Comments:	

65473 CHAMBERS WORKS BOP240002 E1800 (Other Equipment)
Print Date: 6/24/2025

Make:	100 Gallon Autoclave A-1
Manufacturer:	Mitternite
Model:	
Equipment Type:	Reactor
Capacity:	100
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1801 (Other Equipment)
Print Date: 6/24/2025

Make:	200 Gallon Glass Lined Reactor RE-1
Manufacturer:	Pfaudler
Model:	
Equipment Type:	Reactor
Capacity:	200
Units:	gallons
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:	SMPF Product recovery system consisting of 200 gallon reactor system, distillation column, product condenser, and associated ancilliary equipment. The system vents to product condenser which then vents to the SMPF scrubber.

65473 CHAMBERS WORKS BOP240002 E1802 (Other Equipment)
Print Date: 6/24/2025

Make:	Distillation Column CL-1
Manufacturer:	RAS Process Equipment
Model:	
Equipment Type:	Distillation Column
Capacity:	
Units:	NA
Have you attached a diagram showing the location and/or configuration of this equipment?	No
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	No
Comments:	Sections 3 and 5, Hastelloy C-276. Sections 1-2, 4 and 6, Tefzel lined carbon

65473 CHAMBERS WORKS BOP240002 E1803 (Other Equipment)
Print Date: 6/24/2025

Make:	100 Gallon Product Receiver TE-3
Manufacturer:	
Model:	
Equipment Type:	Receiver Vessel
Capacity:	100
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1804 (Other Equipment)
Print Date: 6/24/2025

Make:	100 Gallon Foreshot Receiver TE-4
Manufacturer:	
Model:	
Equipment Type:	Receiver Vessel
Capacity:	100
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1806 (Other Equipment)
Print Date: 6/24/2025

Make:	2000 Gallon Catch Tank TC-1
Manufacturer:	
Model:	
Equipment Type:	Pressure Relief Catch Tank
Capacity:	2000
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E1807 (Other Equipment)
Print Date: 6/24/2025

Make:	Building Air Ventilation System BL-1
Manufacturer:	
Model:	
Equipment Type:	Local Air Exhaust
Capacity:	9000
Units:	SCFM
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:	Local building exhaust system which vents fugitive emissions from process equipment. Vents to CD7200 scrubber under emergency conditions only.

65473 CHAMBERS WORKS BOP240002 E1808 (Other Equipment)
Print Date: 6/24/2025

Make:	200 Gallon Glass Lined Reactor RE-1B
Manufacturer:	Pfauder
Model:	
Equipment Type:	Reactor
Capacity:	200.00
Units:	gallons
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:

SMPF Product recovery system consisting of 200 gallon reactor system, distillation column, product condenser, and associated ancilliary equipment. The system vents to product condenser which then vents to the SMPF scrubber.

65473 CHAMBERS WORKS BOP240002 E2000 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK TW-40
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	5.10E+00
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2001 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR A-135
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	REACTOR
Capacity:	1.25E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2002 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RECEIVER TE-137
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	RECEIVER
Capacity:	1.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2003 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	RECEIVER TE-138
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	RECEIVER
Capacity:	1.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2004 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	MIXER MX-99
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.00E+00
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2005 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	AUTOCLAVE A-121
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	AUTOCLAVE
Capacity:	5.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2007 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	DROWN TANK TE-610
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	DROWN TANK
Capacity:	5.50E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2008 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	FILTER N-241
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	FILTER
Capacity:	
Units:	
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:	3"" x 15" DEEP

65473 CHAMBERS WORKS BOP240002 E2009 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	AUTOCLAVE K-161
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	AUTOCLAVE
Capacity:	4.54E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2010 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	AUTOCLAVE K-153
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	AUTOCLAVE
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2013 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	MIX TANK MX-100
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	MIX TANK
Capacity:	3.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2014 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR RE-168
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	REACTOR
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2015 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	REACTOR K-185
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	REACTOR
Capacity:	5.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2016 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	DISTILLATION COLUMN CL-178
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	DISTILLATION COLUMN
Capacity:	8.53E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2017 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	CIRCULATION VESSEL TE-623
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	CIRCULATION VESSEL
Capacity:	1.00E+03
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2018 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	CIRCULATION VESSEL K-181
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	CIRCULATION VESSEL
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2019 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PURGE TANK T-326
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	PURGE TANK
Capacity:	5.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2020 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	CIRCULATION VESSEL T-328
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	CIRCULATION VESSEL
Capacity:	5.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2021 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	FLAKER FL-6
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	FLAKER
Capacity:	
Units:	
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:	MAIN ROLL 18" x 54" long

65473 CHAMBERS WORKS BOP240002 E2026 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	VESSEL TS-74
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	VESSEL
Capacity:	4.00E+03
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2169 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PIPELINE REACTOR RE-177 WITH WATER C
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	CONDENSER
Capacity:	
Units:	
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:	4.4 ft^2

65473 CHAMBERS WORKS BOP240002 E2264 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TUBE TN-421
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TUBE
Capacity:	
Units:	
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:	0.5 ft^2

65473 CHAMBERS WORKS BOP240002 E2287 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	DRYER D-169
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	DRYER
Capacity:	
Units:	
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:	4 SHELVES AT 40" x 43"

65473 CHAMBERS WORKS BOP240002 E2307 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	FILTER F-367
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	FILTER
Capacity:	9.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2328 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	STEAM MELT/HOT BOX
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	STEAM MELT/ HOT BOX
Capacity:	
Units:	
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:	5"" 6" x 5"" 6"

65473 CHAMBERS WORKS BOP240002 E2330 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	STEAM MELT/HOT BOX HB-248
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	STEAM MELT/ HOT BOX
Capacity:	
Units:	
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:	5"" 6" x 5"" 6"

65473 CHAMBERS WORKS BOP240002 E2349 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-148
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
Capacity:	5.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2350 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-149
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2353 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-162
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
Capacity:	3.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2357 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-176
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
Capacity:	5.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2369 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-207
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2371 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	KETTLE K-213
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	KETTLE
Capacity:	1.00E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2447 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-274
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	3.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2460 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-327
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	5.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2472 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK TC-152
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	5.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2476 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK TC-168
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	3.00E+03
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2483 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK T-347
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2489 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK TE-139
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	2.50E+01
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2501 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK TE-612
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	1.20E+00
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2514 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	FEED TANK TF-162
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	FEED TANK
Capacity:	
Units:	
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:	18" DIA. x 28" DEEP

65473 CHAMBERS WORKS BOP240002 E2517 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK TF-170
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	1.00E+02
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E2528 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK TM-60
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	TANK
Capacity:	5.00E+01
Units:	gallons
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:	associated equipment: RE-177, T-328,C-320, D-150-all HFIB dedicated equipment.

65473 CHAMBERS WORKS BOP240002 E2558 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	HEAT EXCHANGER XC-63
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?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	8 ft^2

65473 CHAMBERS WORKS BOP240002 E3002 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Solids Only
Storage Vessel Type:	Silo
Design Capacity:	12,300
Units:	ft^3
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 Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	40.00
Width (ft):	
Diameter (ft):	20.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	10.00
Units:	ft^3/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical 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?	

65473 CHAMBERS WORKS BOP240002 E3002 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	
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:	LIME SILO TS-28

65473 CHAMBERS WORKS BOP240002 E3003 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Solids Only
Storage Vessel Type:	Silo
Design Capacity:	12,300
Units:	ft^3
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 Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	20.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	10.00
Units:	ft^3/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	

65473 CHAMBERS WORKS BOP240002 E3003 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	
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:	LIME SILO TS-29

65473 CHAMBERS WORKS BOP240002 E3004 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Solids Only
Storage Vessel Type:	
Design Capacity:	12,300
Units:	ft^3
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 Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	20.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	10.00
Units:	ft^3/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	

65473 CHAMBERS WORKS BOP240002 E3004 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	
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:	LIME SILO TS-30

65473 CHAMBERS WORKS BOP240002 E3015 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SLUDGE STORAGE TANK TS-71A
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	9.85E+04
Units:	gallons
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:	

65473 CHAMBERS WORKS BOP240002 E3016 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SLUDGE STORAGE TANK TS-71B
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	9.50E+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:	

65473 CHAMBERS WORKS BOP240002 E3017 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SLUDGE STORAGE TANK TS-71C
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	9.50E+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:	

65473 CHAMBERS WORKS BOP240002 E3018 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SLUDGE HANDLING SYSTEM FP-75
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	FILTER PRESS
Capacity:	1.65E+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:	

65473 CHAMBERS WORKS BOP240002 E3019 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SLUDGE HANDLING SYSTEM FP-76
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	FILTER PRESS
Capacity:	1.65E+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:	

65473 CHAMBERS WORKS BOP240002 E3020 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SLUDGE HANDLING SYSTEM FP-277
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	FILTER PRESS
Capacity:	1.65E+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:	

65473 CHAMBERS WORKS BOP240002 E3021 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	CARBON UNLOADING SYSTEM CP-131
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	1.40E+04
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:	

65473 CHAMBERS WORKS BOP240002 E3023 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	LIME SLAKING RE-26
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.00E+04
Units:	other units
Description (if other):	#/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:	

65473 CHAMBERS WORKS BOP240002 E3025 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	EQUALIZING (POLYMER) TANK T-75
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	3.00E+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:	

65473 CHAMBERS WORKS BOP240002 E3026 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	EQUALIZING (POLYMER) TANK T-76
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	3.00E+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:	

65473 CHAMBERS WORKS BOP240002 E3027 (Storage Vessel)
Print Date: 6/24/2025

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 Exposed to Sunlight?	Yes
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	12.00
Length (ft):	
Width (ft):	
Diameter (ft):	10.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	210.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Domed vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	1.50
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel	

65473 CHAMBERS WORKS BOP240002 E3027 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	Yes
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:	FERRIC CHLORIDE STORAGE TS-126B

65473 CHAMBERS WORKS BOP240002 E3028 (Storage Vessel)
Print Date: 6/24/2025

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

Storage Vessel Type:

Design Capacity: 25,000

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 Thickess (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(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:

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

65473 CHAMBERS WORKS BOP240002 E3028 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	
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:	TS-126A

65473 CHAMBERS WORKS BOP240002 E3101 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PUMP PIT
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:	

65473 CHAMBERS WORKS BOP240002 E3102 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PRIMARY WASTEWATER SUMP P606/P607
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:	

65473 CHAMBERS WORKS BOP240002 E3103 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PRIMARY FLOW SPLITTER GT-49
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:	

65473 CHAMBERS WORKS BOP240002 E3108 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PRIMARY CLARIFIER CF-61
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:	

65473 CHAMBERS WORKS BOP240002 E3109 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PRIMARY CLARIFIER CF-62
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:	

65473 CHAMBERS WORKS BOP240002 E3110 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PRIMARY CLARIFIER CF-63
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:	

65473 CHAMBERS WORKS BOP240002 E3111 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PRIMARY CLARIFIER CF-64
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:	

65473 CHAMBERS WORKS BOP240002 E3112 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PRIMARY STILLING WELL PT-231
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:	

65473 CHAMBERS WORKS BOP240002 E3115 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SECONDARY AERATION AE-151
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:	

65473 CHAMBERS WORKS BOP240002 E3116 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SECONDARY AERATION AE-152
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:	

65473 CHAMBERS WORKS BOP240002 E3117 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SECONDARY AERATION AE-153
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:	

65473 CHAMBERS WORKS BOP240002 E3118 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SECONDARY CLARIFIER FLOW SPLITTER (
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:	

65473 CHAMBERS WORKS BOP240002 E3119 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SECONDARY CLARIFIER CF-161
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:	

65473 CHAMBERS WORKS BOP240002 E3120 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SECONDARY CLARIFIER CF-162
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:	Modified 7/1/2014. A new trough design and a new rake installed to improve TSS removal.

65473 CHAMBERS WORKS BOP240002 E3121 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	WAS SCREW PUMPS P-185A/B
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:	

65473 CHAMBERS WORKS BOP240002 E3122 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	
Storage Vessel Type:	
Design Capacity:	5
Units:	
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 Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	144.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	34.00
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?	

65473 CHAMBERS WORKS BOP240002 E3122 (Storage Vessel)
Print Date: 6/24/2025

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:	STORAGE TANK TS-500

65473 CHAMBERS WORKS BOP240002 E3123 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	
Storage Vessel Type:	
Design Capacity:	5
Units:	
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 Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	144.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	34.00
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?	

65473 CHAMBERS WORKS BOP240002 E3123 (Storage Vessel)
Print Date: 6/24/2025

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:	STORAGE TANK TS-501

65473 CHAMBERS WORKS BOP240002 E3124 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	
Storage Vessel Type:	
Design Capacity:	5
Units:	
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 Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	144.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	34.00
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	

65473 CHAMBERS WORKS BOP240002 E3124 (Storage Vessel)
Print Date: 6/24/2025

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:	STORAGE TANK TS-502

65473 CHAMBERS WORKS BOP240002 E3125 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	WW NEUTRALIZATION NE-41
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.15E+05
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:	

65473 CHAMBERS WORKS BOP240002 E3126 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	WW NEUTRALIZATION NE-42
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.15E+05
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:	

65473 CHAMBERS WORKS BOP240002 E3127 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	WW NEUTRALIZATION NE-43
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	2.15E+05
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:	

65473 CHAMBERS WORKS BOP240002 E3129 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SECONDARY CLARIFIER CF-163
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:	

65473 CHAMBERS WORKS BOP240002 E3130 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TERTIARY AERATION TANK AE-251
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	3.00E+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:	

65473 CHAMBERS WORKS BOP240002 E3131 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TERTIARY CLARIFIER #1 CF-261
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:	

65473 CHAMBERS WORKS BOP240002 E3132 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TERTIARY CLARIFIER #2 CF-262
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:	

65473 CHAMBERS WORKS BOP240002 E3207 (Storage Vessel)
Print Date: 6/24/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	8,000
Units:	gallons
Ground Location:	Below Ground
Is the Shell of the Equipment Exposed to Sunlight?	No
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	26.50
Width (ft):	8.00
Diameter (ft):	8.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
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?	

65473 CHAMBERS WORKS BOP240002 E3207 (Storage Vessel)
Print Date: 6/24/2025

Does the storage vessel have a Conservation Vent?	
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:	UST Facility ID# 008221

65473 CHAMBERS WORKS BOP240002 E3230 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	Fabricon
Model:	
Type of Manufacturing and Materials Handling Equipment:	Head Tank
Capacity:	2.60E+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:	

65473 CHAMBERS WORKS BOP240002 E5501 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SEPARATOR SP-326
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	separator
Capacity:	3.00E+03
Units:	other units
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	gas flow = 0.03 ACFM temp. = 113 F

65473 CHAMBERS WORKS BOP240002 E5502 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	DRYER: D-344
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	dryer
Capacity:	1.54E+01
Units:	other units
Description (if other):	lbs/batch
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:	gas flow = 0.05 ACFM temp = 113 F

65473 CHAMBERS WORKS BOP240002 E5503 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	DRYER: D-345
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	dryer
Capacity:	1.54E+01
Units:	other units
Description (if other):	lbs/batch
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:	gas flow = 0.05 ACFM temp. = 113 F

65473 CHAMBERS WORKS BOP240002 E5504 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	CP-301
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	compressor
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:	used for trailer unloading, suction side is vented through scrubber SB-305 after unloading and distance piece is continuously vented , by way of N2 purge, through same scrubber

65473 CHAMBERS WORKS BOP240002 E5505 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TRAILER UNLOADING LINES
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	lines are purged approx. once per week and vented through scrubber SB-305 to remove anhydrous HCL

65473 CHAMBERS WORKS BOP240002 E5506 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PROCESS CONDENSER C-306
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	reflux condenser
Capacity:	4.00E+01
Units:	other units
Description (if other):	lbs/batch
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:	venting inerts through condenser for inerts removal, then through scrubber SB-305 to remove any HCL

65473 CHAMBERS WORKS BOP240002 E5507 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	PELLET CONVEYING SYSTEM: BL-166
Manufacturer:	Dresser Industries, Inc., Roots Division
Model:	Frame 47 Universal RAI
Type of Manufacturing and Materials Handling Equipment:	pellet conveying system
Capacity:	2.40E+03
Units:	other units
Description (if other):	lbs/hr
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:	pneumatic conveying system, gas flow = average 225 ACFM at ambient temp, maximum 300 acfm

65473 CHAMBERS WORKS BOP240002 E5509 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	FEED TANK: TF-271
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	feed tank
Capacity:	8.30E+01
Units:	gallons
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:	tank will contain chemicals to be used in the process. Emissions occur through displacement. gas flow rates range from 0.23-0.31 ACFM at ambient temp.

65473 CHAMBERS WORKS BOP240002 E5510 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANKER LOADING/UNLOADING
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:	

65473 CHAMBERS WORKS BOP240002 E5511 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	B.L. Bag Line
Manufacturer:	B.L. Bag Line
Model:	Compacta Easy
Type of Manufacturing and Materials Handling Equipment:	Pellet packaging
Capacity:	3.00E+03
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	with new vacuum manifold

65473 CHAMBERS WORKS BOP240002 E5512 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	COLLECTION BIN: VB-275
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	collection bin
Capacity:	2.40E+01
Units:	other units
Description (if other):	lbs/hr
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:	gas volume=200 ACFM at temp. = 70 F

65473 CHAMBERS WORKS BOP240002 E5513 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	MANWAY: TG-275
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	makeup tank
Capacity:	1.00E+02
Units:	other units
Description (if other):	lbs/batch
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:	gas volume = 200 ACFM at temp.= 70F

65473 CHAMBERS WORKS BOP240002 E5522 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	SEPARATOR: SP-277
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	gas/liquid separator
Capacity:	2.40E+02
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:	volume of gas discharged =< 0.3 ACFM, discharge temp. is ambient

65473 CHAMBERS WORKS BOP240002 E5523 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	FILTRATE PROCESS TANK: TC-305
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	filtrate process tanks
Capacity:	2.00E+04
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:	gas flow = 50-70 acfm; temp.=ambient

65473 CHAMBERS WORKS BOP240002 E5524 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	MONOMER RECOVERY ROOM
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E5525 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	TANK SYSTEM T-281, T-283
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:	

65473 CHAMBERS WORKS BOP240002 E5526 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	CP/AC Room
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?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

65473 CHAMBERS WORKS BOP240002 E5527 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	VITON CRUMB DRYER: D-402
Manufacturer:	NATIONAL DRYER
Model:	CONVEYER DRYER
Type of Manufacturing and Materials Handling Equipment:	"VITON" crumb dryer
Capacity:	1.70E+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:	gas volume = 8000-8500 acfm; temp = 70-180 F

65473 CHAMBERS WORKS BOP240002 E5528 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	CYCLONE SEPERATOR
Model:	FOX VALVE
Type of Manufacturing and Materials Handling Equipment:	SCREW CONVEYOR SYSTEM
Capacity:	1.70E+03
Units:	other units
Description (if other):	LBS/HR
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:	

65473 CHAMBERS WORKS BOP240002 E5550 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	Mittenwright Boiler Works
Model:	V-L752
Type of Manufacturing and Materials Handling Equipment:	316SS
Capacity:	3.80E+03
Units:	other units
Description (if other):	lb liquid/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:	

65473 CHAMBERS WORKS BOP240002 E5551 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	
Manufacturer:	Mittenwright Boiler Works
Model:	V-L750
Type of Manufacturing and Materials Handling Equipment:	316SS
Capacity:	8.00E+02
Units:	other units
Description (if other):	800 lb/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:	

65473 CHAMBERS WORKS BOP240002 E10001 (Fuel Combustion Equipment (Other))
Print Date: 6/24/2025

Make:	Wilson
Manufacturer:	Perkins
Model:	GRU-W8335A/001
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	0.57
Type of Heat Exchange:	
Equipment Type Description:	60 kW Generator

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.

65473 CHAMBERS WORKS BOP240002 E10002 (Fuel Combustion Equipment (Other))
Print Date: 6/24/2025

Make:	Wilson
Manufacturer:	Perkins
Model:	GRU-W8335A/001
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	0.57
Type of Heat Exchange:	
Equipment Type Description:	60 kW Generator

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.

65473 CHAMBERS WORKS BOP240002 E12000 (Emergency Generator)
Print Date: 6/24/2025

Make:	Cummins Onan 200DGFC
Manufacturer:	CUMMINS ENGINE COMPANY
Model:	6CTAA8.3-G1
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	2.14
Will the equipment be used in excess of 500 hours per year?	○ Yes ● No
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:	

65473 CHAMBERS WORKS BOP240002 E16100 (Manufacturing and Materials Handling Equipment)
Print Date: 6/24/2025

Make:	Phase separator (PS-1)
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Phase separator tank
Capacity:	2.00E+00
Units:	gallons
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:	Tank will separate hydroogen gas from condensed liquid returning from C299 during the reaction.

CHAMBERS WORKS (65473) Date: 6/24/2025

BOP240002

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
CD1001	C-3	PC-BLDG A: CONDENSER C-3	Condenser		No		CS1000
CD1002	C-5	PC-BLDG A: CONDENSER C-5	Condenser		No		CS1000
CD1004	C-8	PC-BLDG A: CONDENSER C-8	Condenser		No		CS1000
CD1005	C-9	PC-BLDG A: CONDENSER C-9	Condenser		No		CS1000
CD1006	C-11	PC-BLDG A: CONDENSER C-11	Condenser		No		CS1000
CD1007	C-13	PC-BLDG A: CONDENSER C-13	Condenser		No		CS1000
CD1009	C-15	PC-BLDG A: CONDENSER C-15	Condenser		No		CS1000
CD1010	SB-13	PC-BLDG A: SCRUBBER SB-13	Scrubber (Other)		No		CS1000
CD1011	J-1	PC-BLDG A: VACUUM JET J-1	Scrubber (Venturi)		No		CS1000
CD1012	J-2	PC-BLDG A: VACUUM JET J-2	Scrubber (Venturi)		No		CS1000
CD1013	J-4	PC-BLDG A: VACUUM JET J-4	Scrubber (Venturi)		No		CS1000
CD1014	J-5	PC-BLDG A: VACUUM JET J-5	Scrubber (Venturi)		No		CS1000
CD1015	J-7	PC-BLDG A: VACUUM JET J-7	Scrubber (Venturi)		No		CS1000
CD1016	J-8	PC-BLDG A: VACUUM JET J-8	Scrubber (Venturi)		No		CS1000

CHAMBERS WORKS (65473) Date: 6/24/2025
BOP240002

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
CD1018	J-13	PC-BLDG A: VACUUM JET J-13	Scrubber (Venturi)		No		CS1000
CD1019	J-14	PC-BLDG A: VACUUM JET J-14	Scrubber (Venturi)		No		CS1000
CD1020	J-15	PC-BLDG A: VACUUM JET J-15	Scrubber (Venturi)		No		CS1000
CD1021	J-16	PC-BLDG A: VACUUM JET J-16	Scrubber (Venturi)		No		CS1000
CD1022	J-17	PC-BLDG A: VACUUM JET J-17	Scrubber (Venturi)		No		CS1000
CD1023	J-18	PC-BLDG A: VACUUM JET J-18	Scrubber (Venturi)		No		CS1000
CD1024	J-19	PC-BLDG A: VACUUM JET J-19	Scrubber (Venturi)		No		CS1000
CD1025	J-23	PC-BLDG A: VACUUM JET J-23	Scrubber (Venturi)		No		CS1000
CD1026	J-48	PC-BLDG A: VACUUM JET J-48	Scrubber (Venturi)		No		CS1000
CD1027	J-12	PC-BLDG A: VACUUM JET J-12	Scrubber (Venturi)		No		CS1000
CD1304	J-1	PC-BLDG 115: Scrubber J-1	Scrubber (Venturi)		No		CS1300
CD1306	J-6	PC-BLDG 115: Scrubber J-6	Scrubber (Venturi)	2/25/2019	No		CS1300
CD1308	J-8	PC-BLDG 115: Scrubber J-8	Scrubber (Venturi)		No		CS1300

CHAMBERS WORKS (65473) Date: 6/24/2025
BOP240002

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
CD1400	C-10	PC-BLDG 185: CONDENSER C-10	Condenser		No		CS1400
CD1401	J-10	PC-BLDG 185: VACUUM JET J-10	Scrubber (Venturi)		No		CS1400
CD1402	C-15	PC-BLDG 185: CONDENSER C-15	Condenser		No		CS1400
CD1403	C-40	PC-BLDG 185: CONDENSER C-40	Condenser		No		CS1400
CD1404	J-40	PC-BLDG 185: VACUUM JET J-40	Scrubber (Venturi)		No		CS1400
CD1405	C-50	PC-BLDG 185: CONDENSER C-50	Condenser		No		CS1400
CD1406	J-50	PC-BLDG 185: VACUUM JET J-50	Scrubber (Venturi)		No		CS1400
CD1407	C-30	PC-BLDG 185: CONDENSER C-30	Condenser	3/30/2015	No		CS1400
CD1408	J-30	PC-BLDG 185: VACUUM JET J-30	Scrubber (Venturi)		No		CS1400
CD1409	C-60	PC-BLDG 185: CONDENSER C-60	Condenser	6/1/2015	No		CS1400
CD1410	J-60	PC-BLDG 185: VACUUM JET J-60	Scrubber (Venturi)		No		CS1400
CD1411	SB-40	PC-BLDG 185: SCRUBBER SB-40	Scrubber (Venturi)		No		CS1400

CHAMBERS WORKS (65473) Date: 6/24/2025
BOP240002

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
CD1412	J-65	PC-BLDG 185: VACUUM JET J-65	Scrubber (Venturi)		No		CS1400
CD1413	C-66	PC-BLDG 185: CONDENSER C-66	Condenser		No		CS1400
CD1414	J-66	PC-BLDG 185: VACUUM JET J-66	Scrubber (Venturi)		No		CS1400
CD1501	C-41	PC-BLDG ZI: Condenser C-41	Condenser	7/1/2017	No		CS1500
CD1502	SB-41	PC-BLDG ZI: Scrubber SB-41	Scrubber (Other)		No		CS1500
CD1503	SB-65	PC-BLDG ZI: Scrubber SB-65	Scrubber (Venturi)		No		CS1500
CD1504	TG-65	PC-BLDG ZI: TG-65	Scrubber (Other)		No		CS1500
CD1505	SP-43	PC-BLDG ZI: Separator SP-43 after SB-41	Scrubber (Other)	4/1/2017	No		CS1500
CD1508	SP-48	PC-BLDG ZI: Separator SP-48 under SR-41	Other		No		CS1500
CD1509	SB-42	PC-BLDG ZI: Scrubber SB-42	Scrubber (Venturi)	3/15/2013	No		CS1500
CD1510	SR-41	PC-BLDG ZI: Scrubber SR-41	Scrubber (Other)	4/1/2012	No		CS1500
CD1513	SP-45	PC-BLDG ZI: Separator SP-45	Other		No		CS1500
CD1514	J-41	PC-BLDG ZI: Vacuum Jet J-41	Scrubber (Venturi)	12/17/2014	No		CS1500
CD1560	F-2	TORRIT DUST COLLECTOR	Other	3/1/2010	No		
CD1561	F-3	TORRIT DUST COLLECTOR	Other	3/1/2010	No		
CD1602	C-172	PC BLDG 1205: Condenser C-172	Condenser		No		CS1600

CHAMBERS WORKS (65473) Date: 6/24/2025
BOP240002

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
CD1606	C-299	PC BLDG 1205: Condenser C-299	Condenser		No		CS1600
CD1607	C-311	PC BLDG 1205: Condenser C-311	Condenser	2/15/2013	No		CS1600
CD1608	C-312	PC BLDG 1205: Condenser C-312	Condenser		No		CS1600
CD1619	SB-166	PC BLDG 1205: Scrubber SB-166	Scrubber (Packed Tower)	7/1/2017	No		CS1600
CD1620	J-1	PC BLDG 1205: Scrubber J-1	Scrubber (Venturi)		No		CS1600
CD1621	J-2	PC BLDG 1205: Scrubber J-2	Scrubber (Venturi)		No		CS1600
CD1622	C-6	PC BLDG 1205: Condenser C-6	Condenser	9/1/2015	No		CS1600
CD1623	J-4	PC BLDG 1205: Scrubber J-4	Scrubber (Venturi)		No		CS1600
CD1624	SB-1	PC BLDG 1205: Scrubber SB-1	Scrubber (Packed Tower)		No		CS1600
CD1625	SB-2	PC BLDG 1205: Scrubber SB-2	Scrubber (Packed Tower)		No		CS1600
CD1626	SB-126	PC BLDG 1205: Scrubber SB-126	Scrubber (Other)		No		CS1600
CD1629	J-317	PC BLDG 1205: Scrubber J-317	Scrubber (Venturi)		No		CS1600
CD1631	C-403	PC BLDG 1205: Condenser C-403	Condenser		No		CS1600
CD1632	J-319	PC BLDG 1205: Scrubber J-319	Scrubber (Venturi)		No		CS1600
CD1633	J-320	PC BLDG 1205: Scrubber J-320	Scrubber (Venturi)		No		CS1600
CD1702	SB-181	PC BLDG J-26: Scrubber SB-181	Scrubber (Venturi)	8/1/2017	No		CS1700

CHAMBERS WORKS (65473) Date: 6/24/2025
BOP240002

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
CD1703	SB-163	PC BLDG J-26: BAY 1 FUME SCRUBBER SB-163	Scrubber (Packed Tower)		No		CS1700
CD1704	SB-164/T-348	PC BLDG J-26:BAY 1 SCRUBBER SB-164	Scrubber (Other)	7/15/2023	No		CS1700
CD1705	AD-1	PC BLDG J-26: BAY 1 Carbon Canisters	Adsorber	7/1/2019	No		CS1700
CD1800	CL-2	PC: BLDG 1470: SMPF Scrubber CL-2	Scrubber (Packed Tower)		No		
CD2000	CL-157/T-278	PC BLDG J-25: SCRUBBER SYSTEM CL-157 WITH T-278	Scrubber (Packed Tower)		No		CS2000
CD2001	J-113	PC BLDG J-25: JET J-113	Scrubber (Venturi)		No		CS2000
CD2002	C-356	PC BLDG J-26: BAY 1 CONDENSER C-356	Condenser		No		CS2000
CD2003	SB107/ CL131	PC BLDG J-26: SCRUBBER/COLUMN SB107/CL131	Scrubber (Packed Tower)	11/30/2014	No		CS2000
CD2006	J-166	PC BLDG J-26: JET J-166	Scrubber (Venturi)		No		CS2000
CD2007	SB-180	PC BLDG J-26: SCRUBBER SB-180	Scrubber (Other)		No		CS2000
CD2026	J-128	PC BLDG J-26: JET J-128	Scrubber (Venturi)		No		CS2000
CD3002	TE-27	SET: LIME SILO TS-27 BAGHOUSE TE-27	Particulate Filter (Baghouse)		No	7/1/2011	
CD3004	TE-28	SET: LIME SILO TS-28 BAGHOUSE TE-28	Particulate Filter (Baghouse)		No	7/1/2011	

CHAMBERS WORKS (65473) Date: 6/24/2025
BOP240002

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
CD3006	TE-29	SET: LIME SILO TS-29 BAGHOUSE TE-29	Particulate Filter (Baghouse)		No	7/1/2011	
CD3008	TE-30	SET: LIME SILO TS-30 BAGHOUSE TE-30	Particulate Filter (Baghouse)		No	7/1/2011	
CD3013	SB-132	SET: SCRUBBER SB-132	Scrubber (Other)		No		
CD3015	SB-26	SET: SCRUBBER SB-26	Scrubber (Other)		No		
CD3031	SB-126	SET: SCRUBBER SB-126	Scrubber (Venturi)		No		
CD3130	TE-131	SET: Baghouse TE-131	Particulate Filter (Baghouse)		No		
CD5501	SB-305	ELASTOMERS-BLDG 745: SCRUBBER-PACKED TOWER SB-305	Scrubber (Packed Tower)		No		
CD5502	F-165	ELASTOMERS-BLDG 745: PARTICULATE FILTER F-165	Particulate Filter (Baghouse)		No		
CD5503	F-166	ELASTOMERS-BLDG 745: PARTICULATE FILTER F-166	Particulate Filter (Baghouse)		No		
CD5505	AERO BAG	ELASTOMERS-BLDG 745: AEROPULSE BAGHOUSE F-280	Particulate Filter (Cartridge)		No		
CD5506	SK-274 C-277	ELASTOMERS-BLDG 745: CONDENSER C-277	Condenser		No		
CD5507	F-402	ELASTOMERS-BLDG 745: PARTICULATE FILTER-CARTRIDGE	Particulate Filter (Cartridge)		No		

65473 CHAMBERS WORKS BOP240002 CD1001 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER C-3
Manufacturer:	
Model:	
Condenser Type:	
Type of Material of Which Shell Is Constructed:	
Type of Material of Which Tubes Are Constructed:	
Minimum Gas Inlet Temperature (°F):	
Maximum Gas Inlet Temperature (°F):	
Heat Transfer (Contact) Surface Area (ft^2):	
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 (°F):	
Maximum Cooling Medium Inlet Temperature (°F):	
Minimum Cooling Medium Outlet Temperature (°F):	
Maximum Cooling Medium Outlet Temperature (°F):	
Minimum Gas Outlet Temperature (°F):	
Maximum Gas Outlet Temperature (°F):	
Minimum Condensate Outlet Temperature (°F):	
Maximum Condensate Outlet Temperature (°F):	
Type of Cooling Medium:	
Use of Condensate:	
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?	○ 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:

65473 CHAMBERS WORKS BOP240002 CD1002 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER C-5
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):	

65473 CHAMBERS WORKS BOP240002 CD1002 (Condenser)
Print Date: 6/19/2025

Type of Cooling Medium:	
Use of Condenser:	
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1004 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER C-8
Manufacturer:	R.M. ARMSTRONG
Model:	
Condenser Type:	SHELL & TUBE
Type of Material of Which Shell Is Constructed:	
Type of Material of Which Tubes Are Constructed:	
Minimum Gas Inlet Temperature (deg F):	115
Maximum Gas Inlet Temperature (deg F):	190
Heat Transfer (Contact) Surface Area (ft2):	58
Maximum Gas Flow (acfm):	40
Minimum Cooling Medium Flow Rate (gpm):	30
Maximum Cooling Medium Flow Rate (gpm):	N/A
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	N/A
Maximum Cooling Medium Inlet Temperature (deg F):	85
Minimum Cooling Medium Outlet Temperature (deg F):	N/A
Maximum Cooling Medium Outlet Temperature (deg F):	95
Minimum Gas Outlet Temperature (deg F):	100
Maximum Gas Outlet Temperature (deg F):	170
Minimum Condensate Outlet Temperature (deg F):	100
Maximum Condensate Outlet Temperature (deg F):	170

65473 CHAMBERS WORKS BOP240002 CD1004 (Condenser)
Print Date: 6/19/2025

Type of Cooling Medium:	WATER
Use of Condenser:	
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1005 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER C-9
Manufacturer:	R.M. ARMSTRONG
Model:	
Condenser Type:	SHELL & TUBE
Type of Material of Which Shell Is Constructed:	
Type of Material of Which Tubes Are Constructed:	
Minimum Gas Inlet Temperature (deg F):	90
Maximum Gas Inlet Temperature (deg F):	150
Heat Transfer (Contact) Surface Area (ft2):	58
Maximum Gas Flow (acfm):	20
Minimum Cooling Medium Flow Rate (gpm):	30
Maximum Cooling Medium Flow Rate (gpm):	40
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	N/A
Maximum Cooling Medium Inlet Temperature (deg F):	85
Minimum Cooling Medium Outlet Temperature (deg F):	N/A
Maximum Cooling Medium Outlet Temperature (deg F):	105
Minimum Gas Outlet Temperature (deg F):	80
Maximum Gas Outlet Temperature (deg F):	135
Minimum Condensate Outlet Temperature (deg F):	80
Maximum Condensate Outlet Temperature (deg F):	135

65473 CHAMBERS WORKS BOP240002 CD1005 (Condenser)
Print Date: 6/19/2025

Type of Cooling Medium:	WATER OR BRINE
Use of Condenser:	
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1006 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER C-11
Manufacturer:	R. M Armstrong
Model:	A625147
Condenser Type:	Shell & Tube
Type of Material of Which Shell Is Constructed:	
Type of Material of Which Tubes Are Constructed:	
Minimum Gas Inlet Temperature (deg F):	170
Maximum Gas Inlet Temperature (deg F):	185
Heat Transfer (Contact) Surface Area (ft2):	100
Maximum Gas Flow (acfm):	20
Minimum Cooling Medium Flow Rate (gpm):	30
Maximum Cooling Medium Flow Rate (gpm):	37.5
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	N/A
Maximum Cooling Medium Inlet Temperature (deg F):	85
Minimum Cooling Medium Outlet Temperature (deg F):	N/A
Maximum Cooling Medium Outlet Temperature (deg F):	105
Minimum Gas Outlet Temperature (deg F):	135
Maximum Gas Outlet Temperature (deg F):	145
Minimum Condensate Outlet Temperature (deg F):	135
Maximum Condensate Outlet Temperature (deg F):	145

65473 CHAMBERS WORKS BOP240002 CD1006 (Condenser)
Print Date: 6/19/2025

Type of Cooling Medium:	water
Use of Condenser:	dimethylacetimide or toluene
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1007 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER C-13
Manufacturer:	Camden Fabricator
Model:	Unknown
Condenser Type:	
Type of Material of Which Shell Is Constructed:	
Type of Material of Which Tubes Are Constructed:	
Minimum Gas Inlet Temperature (deg F):	159
Maximum Gas Inlet Temperature (deg F):	265
Heat Transfer (Contact) Surface Area (ft2):	550
Maximum Gas Flow (acfm):	40
Minimum Cooling Medium Flow Rate (gpm):	30
Maximum Cooling Medium Flow Rate (gpm):	40
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	N/A
Maximum Cooling Medium Inlet Temperature (deg F):	85
Minimum Cooling Medium Outlet Temperature (deg F):	N/A
Maximum Cooling Medium Outlet Temperature (deg F):	105
Minimum Gas Outlet Temperature (deg F):	146
Maximum Gas Outlet Temperature (deg F):	243
Minimum Condensate Outlet Temperature (deg F):	146
Maximum Condensate Outlet Temperature (deg F):	243

65473 CHAMBERS WORKS BOP240002 CD1007 (Condenser)
Print Date: 6/19/2025

Type of Cooling Medium:	WATER/BRINE
Use of Condenser:	WATER
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1011 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-1
Manufacturer:	SCHUTTE & KOERTING
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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
Maximum Operating Liquid Flow Rate (gpm):	25
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	0
Maximum Operating Gas Flow Rate (acfm):	20
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	270
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1011 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	VACUUM PRESSURE GAUGE
Throat Length (in):	SUCTION DIAMETER: 1"
Throat Diameter (in):	DISCHARGE DIAMETER: 2"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	212
Maximum Outlet Gas Temperature (deg F):	212
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:	TYPE: STEAM

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1012 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-2
Manufacturer:	SCHUTTE & KOERTING
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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):	0
Maximum Operating Gas Flow Rate (acfm):	20
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	270
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1012 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	VACUUM PRESSURE GAUGE
Throat Length (in):	SUCTION DIAMETER: 1.5"
Throat Diameter (in):	DISCHARGE DIAMETER: 1.5"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	N/A
Maximum Outlet Gas Temperature (deg F):	N/A
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:	TYPE: WATER

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1013 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-4
Manufacturer:	SCHUTTE & KOERTING
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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):	0
Maximum Operating Gas Flow Rate (acfm):	20
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	270
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1013 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	N/A
Throat Length (in):	SUCTION DIAMETER: 1"
Throat Diameter (in):	DISCHARGE DIAMETER: 1"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	N/A
Maximum Outlet Gas Temperature (deg F):	N/A
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:	TYPE: STEAM

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1014 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-5
Manufacturer:	
Model:	
Is the Scrubber used for Particulate Control?	
Is the Scrubber used for Gas Control?	
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):	
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	

65473 CHAMBERS WORKS BOP240002 CD1014 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	
Throat Length (in):	
Throat Diameter (in):	
Liquid Introduction Mechanism:	
Type of Nozzle:	
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1015 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-7
Manufacturer:	
Model:	
Is the Scrubber used for Particulate Control?	
Is the Scrubber used for Gas Control?	
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):	
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	

65473 CHAMBERS WORKS BOP240002 CD1015 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	
Throat Length (in):	
Throat Diameter (in):	
Liquid Introduction Mechanism:	
Type of Nozzle:	
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1016 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-8
Manufacturer:	SCHUTTE & KOERTING
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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):	10
Maximum Operating Gas Flow Rate (acfm):	20
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	270
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1016 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	VACUUM PRESSURE GAUGE
Throat Length (in):	SUCTION DIAMETER: 1.5"
Throat Diameter (in):	DISCHARGE DIAMETER: 1.5"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	171
Maximum Outlet Gas Temperature (deg F):	171
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:	TYPE: STEAM

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1018 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-13
Manufacturer:	GAULIN
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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):	60
Maximum Operating Liquid Flow Rate (gpm):	70
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	0
Maximum Operating Gas Flow Rate (acfm):	15
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	340
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1018 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	VACUUM PRESSURE GAUGE
Throat Length (in):	SUCTION DIAMETER: 2"
Throat Diameter (in):	DISCHARGE DIAMETER: 2"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	266
Maximum Outlet Gas Temperature (deg F):	266
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:	TYPE: 2 STAGE STEAM

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1019 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-14
Manufacturer:	SCHUTTE & KOERTNG
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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):	0
Maximum Operating Liquid Flow Rate (gpm):	6
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	0
Maximum Operating Gas Flow Rate (acfm):	25
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	270
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1019 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	VACUUM PRESSURE GAUGE
Throat Length (in):	SUCTION DIAMETER: 1.5"
Throat Diameter (in):	DISCHARGE DIAMETER: 1.5"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	190
Maximum Outlet Gas Temperature (deg F):	190
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:	TYPE: STEAM

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1020 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-15
Manufacturer:	SCHUTTE & KOERTING
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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):	10
Maximum Operating Liquid Flow Rate (gpm):	20
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	10
Maximum Operating Gas Flow Rate (acfm):	20
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	270
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1020 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	VACUUM PRESSURE GAUGE
Throat Length (in):	SUCTION DIAMETER: 2.5"
Throat Diameter (in):	DISCHARGE DIAMETER: 2.5"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	198
Maximum Outlet Gas Temperature (deg F):	198
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:	TYPE: STEAM

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1021 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-16
Manufacturer:	Schutte & Koerting
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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):	5
Maximum Operating Liquid Flow Rate (gpm):	15
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	15
Maximum Operating Gas Flow Rate (acfm):	25
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	270
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1021 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	VACUUM PRESSURE GAUGE
Throat Length (in):	SUCTION DIAMETER: 2"
Throat Diameter (in):	DISCHARGE DIAMETER: 2"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	198
Maximum Outlet Gas Temperature (deg F):	198
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:	TYPE: STEAM

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1022 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-17
Manufacturer:	Schutte & Koerting
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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):	5
Maximum Operating Liquid Flow Rate (gpm):	10
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	10
Maximum Operating Gas Flow Rate (acfm):	20
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	270
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1022 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	VACUUM PRESSURE GAUGE
Throat Length (in):	SUCTION DIAMETER: 1.5"
Throat Diameter (in):	DISCHARGE DIAMETER: 1.5"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	176
Maximum Outlet Gas Temperature (deg F):	176
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:	TYPE: STEAM

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1023 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-18
Manufacturer:	SCHUTTE & KOERTING
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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):	5
Maximum Operating Liquid Flow Rate (gpm):	15
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	0
Maximum Operating Gas Flow Rate (acfm):	50
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	270
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1023 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	VACUUM PRESSURE GAUGE
Throat Length (in):	SUCTION DIAMETER: 2"
Throat Diameter (in):	DISCHARGE DIAMETER: 2"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	212
Maximum Outlet Gas Temperature (deg F):	212
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:	TYPE: STEAM

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1024 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-19
Manufacturer:	Schutte & Koerting
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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):	5
Maximum Operating Liquid Flow Rate (gpm):	15
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	0
Maximum Operating Gas Flow Rate (acfm):	50
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	270
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1024 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	VACUUM PRESSURE GAUGE
Throat Length (in):	SUCTION DIAMETER: 2"
Throat Diameter (in):	DISCHARGE DIAMETER: 2"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	90
Maximum Outlet Gas Temperature (deg F):	90
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:	TYPE: STEAM

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1025 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-23
Manufacturer:	SCHUTTE & KOERTING
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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):	7
Maximum Operating Liquid Flow Rate (gpm):	10
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	30
Maximum Operating Gas Flow Rate (acfm):	50
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	270
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1025 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	VACUUM PRESSURE GAUGE
Throat Length (in):	2
Throat Diameter (in):	3
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	90
Maximum Outlet Gas Temperature (deg F):	90
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1026 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-48
Manufacturer:	SCHUTTE & KOERTNG
Model:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	HOTWELL
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):	0
Maximum Operating Liquid Flow Rate (gpm):	6
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	0
Maximum Operating Gas Flow Rate (acfm):	25
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	270
Maximum Operating Pressure Drop (in. H2O):	N/A

65473 CHAMBERS WORKS BOP240002 CD1026 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	VACUUM PRESSURE GAUGE
Throat Length (in):	SUCTION DIAMETER: 1.5"
Throat Diameter (in):	DISCHARGE DIAMETER: 1.5"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	STAINLESS STEEL
Maximum Inlet Gas Temperature (deg F):	190
Maximum Outlet Gas Temperature (deg F):	190
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?	NO
Comments:	TYPE: STEAM

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1027 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-12
Manufacturer:	
Model:	
Is the Scrubber used for Particulate Control?	
Is the Scrubber used for Gas Control?	
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):	
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	

65473 CHAMBERS WORKS BOP240002 CD1027 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Throat Length (in):	
Throat Diameter (in):	
Liquid Introduction Mechanism:	
Type of Nozzle:	
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1304 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	
Manufacturer:	Schutte & Koerting Co. (S&K)
Model:	
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):	1
Maximum Operating Liquid Flow Rate (gpm):	20
Method of Monitoring Liquid Flow Rate:	NONE
Minimum Operating Gas Flow Rate (acfm):	0.1
Maximum Operating Gas Flow Rate (acfm):	30
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	20 in Hg

65473 CHAMBERS WORKS BOP240002 CD1304 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (in. H2O):	25 in Hg
Method of Monitoring Pressure Drop:	
Throat Length (in):	8 7/8
Throat Diameter (in):	1
Liquid Introduction Mechanism:	Pipe
Type of Nozzle:	S&K type 555
Maximum Inlet Gas Temperature (deg F):	275
Maximum Outlet Gas Temperature (deg F):	104
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?	
Have you attached a diagram showing the location and/or configuration of this control apparatus?	
Comments:	One-stage Jet

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	95
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1306 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	
Manufacturer:	S&K
Model:	
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):	0.1
Maximum Operating Gas Flow Rate (acfm):	30
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	20 in. of Hg

65473 CHAMBERS WORKS BOP240002 CD1306 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Throat Length (in):	22 1/16, 13 1/4
Throat Diameter (in):	2 1/2, 1 1/2
Liquid Introduction Mechanism:	pipe
Type of Nozzle:	S&K type 555
Maximum Inlet Gas Temperature (deg F):	275
Maximum Outlet Gas Temperature (deg F):	104
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:	two stage jet drains to hotwell HW-2

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	95
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1308 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
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):	64
Maximum Operating Liquid Flow Rate (gpm):	104
Method of Monitoring Liquid Flow Rate:	NONE
Minimum Operating Gas Flow Rate (acfm):	0.1
Maximum Operating Gas Flow Rate (acfm):	30
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	20 in. of Hg

65473 CHAMBERS WORKS BOP240002 CD1308 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (in. H2O):	25 in. of Hg
Method of Monitoring Pressure Drop:	
Throat Length (in):	13 1/4
Throat Diameter (in):	1 1/2
Liquid Introduction Mechanism:	pipe
Type of Nozzle:	S&K type 555
Maximum Inlet Gas Temperature (deg F):	275
Maximum Outlet Gas Temperature (deg F):	104
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:	One-stage Jet

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	95
TSP	95
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1400 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER C-10
Manufacturer:	Camden Alloy Fabricators
Model:	
Condenser Type:	SHELL & TUBE
Type of Material of Which Shell Is Constructed:	Monel
Type of Material of Which Tubes Are Constructed:	Carp. 20
Minimum Gas Inlet Temperature (deg F):	176
Maximum Gas Inlet Temperature (deg F):	300
Heat Transfer (Contact) Surface Area (ft2):	200
Maximum Gas Flow (acfm):	75
Minimum Cooling Medium Flow Rate (gpm):	20
Maximum Cooling Medium Flow Rate (gpm):	40
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	40
Maximum Cooling Medium Inlet Temperature (deg F):	60
Minimum Cooling Medium Outlet Temperature (deg F):	50
Maximum Cooling Medium Outlet Temperature (deg F):	70
Minimum Gas Outlet Temperature (deg F):	
Maximum Gas Outlet Temperature (deg F):	212
Minimum Condensate Outlet Temperature (deg F):	100
Maximum Condensate Outlet Temperature (deg F):	212

65473 CHAMBERS WORKS BOP240002 CD1400 (Condenser)
Print Date: 6/19/2025

Type of Cooling Medium:	WATER
Use of Condenser:	MIBK, Telomer B
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1401 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-10
Manufacturer:	S & K
Model:	3 stage jet
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):	10
Maximum Operating Liquid Flow Rate (gpm):	30
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	10
Maximum Operating Gas Flow Rate (acfm):	30
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	20 in. Hg
Maximum Operating Pressure Drop (in. H2O):	30 in. Hg

65473 CHAMBERS WORKS BOP240002 CD1401 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	continuous pressure meters
Throat Length (in):	22,18,13
Throat Diameter (in):	3,2,1.5
Liquid Introduction Mechanism:	pipes
Type of Nozzle:	Iron S&K type 561, 555, 555
Maximum Inlet Gas Temperature (deg F):	275
Maximum Outlet Gas Temperature (deg F):	104
Inlet Particle Grain Loading (gr/dscf):	
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?	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:	1st and second stages conter-current, 3rd stage co-current

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1402 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER C-15
Manufacturer:	Camden Alloy Fabricators
Model:	
Condenser Type:	SHELL & TUBE
Type of Material of Which Shell Is Constructed:	AL-BRONZE
Type of Material of Which Tubes Are Constructed:	TITANIUM
Minimum Gas Inlet Temperature (deg F):	176
Maximum Gas Inlet Temperature (deg F):	300
Heat Transfer (Contact) Surface Area (ft2):	136
Maximum Gas Flow (acfm):	75
Minimum Cooling Medium Flow Rate (gpm):	20
Maximum Cooling Medium Flow Rate (gpm):	40
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	40
Maximum Cooling Medium Inlet Temperature (deg F):	60
Minimum Cooling Medium Outlet Temperature (deg F):	50
Maximum Cooling Medium Outlet Temperature (deg F):	70
Minimum Gas Outlet Temperature (deg F):	
Maximum Gas Outlet Temperature (deg F):	212
Minimum Condensate Outlet Temperature (deg F):	100
Maximum Condensate Outlet Temperature (deg F):	140

65473 CHAMBERS WORKS BOP240002 CD1402 (Condenser)
Print Date: 6/19/2025

Type of Cooling Medium:	WATER
Use of Condenser:	MIBK, TelomerB
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1403 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER C-40
Manufacturer:	Joseph Oat and Sons
Model:	
Condenser Type:	shell and tube
Type of Material of Which Shell Is Constructed:	monel
Type of Material of Which Tubes Are Constructed:	titanium
Minimum Gas Inlet Temperature (deg F):	120
Maximum Gas Inlet Temperature (deg F):	202
Heat Transfer (Contact) Surface Area (ft2):	275
Maximum Gas Flow (acfm):	250
Minimum Cooling Medium Flow Rate (gpm):	20
Maximum Cooling Medium Flow Rate (gpm):	40
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	23
Maximum Cooling Medium Inlet Temperature (deg F):	100
Minimum Cooling Medium Outlet Temperature (deg F):	27
Maximum Cooling Medium Outlet Temperature (deg F):	110
Minimum Gas Outlet Temperature (deg F):	
Maximum Gas Outlet Temperature (deg F):	212

Minimum Condensate Outlet Temperature (deg F):	100
Maximum Condensate Outlet Temperature (deg F):	140
Type of Cooling Medium:	water
Use of Condenser:	VOC removal
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?	
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1404 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-40
Manufacturer:	Schutte & Koerting
Model:	2 Stage Jet
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):	10
Maximum Operating Liquid Flow Rate (gpm):	30
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	10
Maximum Operating Gas Flow Rate (acfm):	30
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	20 in. Hg
Maximum Operating Pressure Drop (in. H2O):	30 in. Hg

65473 CHAMBERS WORKS BOP240002 CD1404 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	CONTINUOUS PRESSURE METER
Throat Length (in):	18, 13
Throat Diameter (in):	2, 1.5
Liquid Introduction Mechanism:	
Type of Nozzle:	
Maximum Inlet Gas Temperature (deg F):	275
Maximum Outlet Gas Temperature (deg F):	104
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:	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?	NO
Comments:	1ST STAGE COUNTERCURRENT, 2ND STAGE COCURRENT

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1405 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER C-50
Manufacturer:	
Model:	
Condenser Type:	SHELL AND TUBE
Type of Material of Which Shell Is Constructed:	
Type of Material of Which Tubes Are Constructed:	
Minimum Gas Inlet Temperature (deg F):	176
Maximum Gas Inlet Temperature (deg F):	300
Heat Transfer (Contact) Surface Area (ft2):	
Maximum Gas Flow (acfm):	
Minimum Cooling Medium Flow Rate (gpm):	20
Maximum Cooling Medium Flow Rate (gpm):	40
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	40
Maximum Cooling Medium Inlet Temperature (deg F):	60
Minimum Cooling Medium Outlet Temperature (deg F):	50
Maximum Cooling Medium Outlet Temperature (deg F):	70
Minimum Gas Outlet Temperature (deg F):	
Maximum Gas Outlet Temperature (deg F):	212
Minimum Condensate Outlet Temperature (deg F):	100
Maximum Condensate Outlet Temperature (deg F):	212

65473 CHAMBERS WORKS BOP240002 CD1405 (Condenser)
Print Date: 6/19/2025

Type of Cooling Medium:	WATER
Use of Condenser:	
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?	NO
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1406 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-50
Manufacturer:	S & K
Model:	2-stage jet
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):	10
Maximum Operating Liquid Flow Rate (gpm):	30
Method of Monitoring Liquid Flow Rate:	NONE
Minimum Operating Gas Flow Rate (acfm):	10
Maximum Operating Gas Flow Rate (acfm):	30
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	20 in. Hg
Maximum Operating Pressure Drop (in. H2O):	30 in. Hg

65473 CHAMBERS WORKS BOP240002 CD1406 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	Continuous pressure meters
Throat Length (in):	18, 13
Throat Diameter (in):	2, 1.5
Liquid Introduction Mechanism:	PIPES
Type of Nozzle:	Iron, S&K type 555
Maximum Inlet Gas Temperature (deg F):	275
Maximum Outlet Gas Temperature (deg F):	104
Inlet Particle Grain Loading (gr/dscf):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	K-50, CL-50
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:	1st stage counter-current, 2nd stage co-current

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1407 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER C-30
Manufacturer:	Joseph Oat and Sons
Model:	
Condenser Type:	SHELL & TUBE
Type of Material of Which Shell Is Constructed:	AL6XN
Type of Material of Which Tubes Are Constructed:	AL6XN
Minimum Gas Inlet Temperature (deg F):	163
Maximum Gas Inlet Temperature (deg F):	167
Heat Transfer (Contact) Surface Area (ft2):	272
Maximum Gas Flow (acfm):	29
Minimum Cooling Medium Flow Rate (gpm):	20
Maximum Cooling Medium Flow Rate (gpm):	40
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	40
Maximum Cooling Medium Inlet Temperature (deg F):	60
Minimum Cooling Medium Outlet Temperature (deg F):	50
Maximum Cooling Medium Outlet Temperature (deg F):	70
Minimum Gas Outlet Temperature (deg F):	
Maximum Gas Outlet Temperature (deg F):	212

Minimum Condensate Outlet Temperature (deg F):	100
Maximum Condensate Outlet Temperature (deg F):	140
Type of Cooling Medium:	WATER
Use of Condenser:	
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?	NO
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1408 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-30
Manufacturer:	S&K
Model:	2 stage jet
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):	10
Maximum Operating Liquid Flow Rate (gpm):	30
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	10
Maximum Operating Gas Flow Rate (acfm):	30
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	

65473 CHAMBERS WORKS BOP240002 CD1408 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	
Throat Length (in):	18, 13
Throat Diameter (in):	2, 1.5
Liquid Introduction Mechanism:	pipe
Type of Nozzle:	S&K type 555
Maximum Inlet Gas Temperature (deg F):	275
Maximum Outlet Gas Temperature (deg F):	104
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:	1st stage counter-current, 2nd stage co-current

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1409 (Condenser)
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
Condenser Type:	SHELL AND TUBE
Type of Material of Which Shell Is Constructed:	Monel
Type of Material of Which Tubes Are Constructed:	AL6XN
Minimum Gas Inlet Temperature (deg F):	163
Maximum Gas Inlet Temperature (deg F):	167
Heat Transfer (Contact) Surface Area (ft2):	200
Maximum Gas Flow (acfm):	29
Minimum Cooling Medium Flow Rate (gpm):	20
Maximum Cooling Medium Flow Rate (gpm):	40
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	80
Maximum Cooling Medium Inlet Temperature (deg F):	90
Minimum Cooling Medium Outlet Temperature (deg F):	50
Maximum Cooling Medium Outlet Temperature (deg F):	70
Minimum Gas Outlet Temperature (deg F):	
Maximum Gas Outlet Temperature (deg F):	212

Minimum Condensate Outlet Temperature (deg F):	100
Maximum Condensate Outlet Temperature (deg F):	140
Type of Cooling Medium:	WATER
Use of Condenser:	
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?	NO
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1410 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-60
Manufacturer:	S&K
Model:	2 stage jet
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):	10
Maximum Operating Liquid Flow Rate (gpm):	30
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	10
Maximum Operating Gas Flow Rate (acfm):	30
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	

65473 CHAMBERS WORKS BOP240002 CD1410 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	
Throat Length (in):	18, 13
Throat Diameter (in):	2, 1.5
Liquid Introduction Mechanism:	pipe
Type of Nozzle:	S&K type 555
Maximum Inlet Gas Temperature (deg F):	275
Maximum Outlet Gas Temperature (deg F):	104
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:	1st stage counter-current, 2nd stage co-current

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1411 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	SCRUBBER SB-40
Manufacturer:	Ametek - Schutte and Koerting
Model:	4" Ejector Venturi Gas Scrubber, Type 7014
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):	4
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	RUTAMETER
Minimum Operating Gas Flow Rate (acfm):	
Maximum Operating Gas Flow Rate (acfm):	10
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	4

65473 CHAMBERS WORKS BOP240002 CD1411 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	Continuous pressure drop meters
Throat Length (in):	1
Throat Diameter (in):	
Liquid Introduction Mechanism:	Water from 40 PSIG header
Type of Nozzle:	4" suction 1.5" water and drain, 4" overflow
Maximum Inlet Gas Temperature (deg F):	80
Maximum Outlet Gas Temperature (deg F):	70
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:	material: fiberglass reinforced plastic. co-current flow.

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	
general	99%

65473 CHAMBERS WORKS BOP240002 CD1412 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	VACUUM JET J-65
Manufacturer:	S&K
Model:	single stage jet
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):	10
Maximum Operating Liquid Flow Rate (gpm):	30
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	1
Maximum Operating Gas Flow Rate (acfm):	30
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	20 inches Hg
Maximum Operating Pressure Drop (in. H2O):	30 inches Hg

65473 CHAMBERS WORKS BOP240002 CD1412 (Scrubber (Venturi))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	
Throat Length (in):	13
Throat Diameter (in):	1.5
Liquid Introduction Mechanism:	pipe
Type of Nozzle:	S&K type 555
Maximum Inlet Gas Temperature (deg F):	275
Maximum Outlet Gas Temperature (deg F):	104
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?	yes
Have you attached a diagram showing the location and/or configuration of this control apparatus?	yes
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1413 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER C-66
Manufacturer:	
Model:	
Condenser Type:	SHELL AND TUBE
Type of Material of Which Shell Is Constructed:	Alloy 2205
Type of Material of Which Tubes Are Constructed:	Alloy 2205
Minimum Gas Inlet Temperature (deg F):	110
Maximum Gas Inlet Temperature (deg F):	167
Heat Transfer (Contact) Surface Area (ft2):	200
Maximum Gas Flow (acfm):	29
Minimum Cooling Medium Flow Rate (gpm):	20
Maximum Cooling Medium Flow Rate (gpm):	40
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	40
Maximum Cooling Medium Inlet Temperature (deg F):	60
Minimum Cooling Medium Outlet Temperature (deg F):	50
Maximum Cooling Medium Outlet Temperature (deg F):	70
Minimum Gas Outlet Temperature (deg F):	
Maximum Gas Outlet Temperature (deg F):	212

Minimum Condensate Outlet Temperature (deg F):	100
Maximum Condensate Outlet Temperature (deg F):	158
Type of Cooling Medium:	WATER
Use of Condenser:	
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?	NO
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1414 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	Vacuum Jet J-66
Manufacturer:	S & K
Model:	2 stage jet
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):	10
Maximum Operating Liquid Flow Rate (gpm):	30
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	10
Maximum Operating Gas Flow Rate (acfm):	30
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	

65473 CHAMBERS WORKS BOP240002 CD1414 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Throat Length (in):	18, 13
Throat Diameter (in):	2,1.5
Liquid Introduction Mechanism:	pipe
Type of Nozzle:	S&K type 555
Maximum Inlet Gas Temperature (deg F):	275
Maximum Outlet Gas Temperature (deg F):	104
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?	no
Comments:	1st stage counter-current, 2nd stage co-current

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1501 (Condenser)
Print Date: 6/19/2025

Make:	
Manufacturer:	RAS Process Equipment, Inc.
Model:	
Condenser Type:	Tube & Shell
Type of Material of Which Shell Is Constructed:	SB-127 N04400 Annealed
Type of Material of Which Tubes Are Constructed:	SB-111-C70600
Minimum Gas Inlet Temperature (deg F):	150
Maximum Gas Inlet Temperature (deg F):	220
Heat Transfer (Contact) Surface Area (ft2):	112
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):	32
Maximum Cooling Medium Inlet Temperature (deg F):	122
Minimum Cooling Medium Outlet Temperature (deg F):	32
Maximum Cooling Medium Outlet Temperature (deg F):	212
Minimum Gas Outlet Temperature (deg F):	
Maximum Gas Outlet Temperature (deg F):	

65473 CHAMBERS WORKS BOP240002 CD1501 (Condenser)
Print Date: 6/19/2025

Minimum Condensate Outlet Temperature (deg F):	32
Maximum Condensate Outlet Temperature (deg F):	212
Type of Cooling Medium:	Water
Use of Condenser:	Process (Reflux)
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?	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?	NO
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1502 (Scrubber (Other))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
Scrubber Type:	Armalon Reinforced Baffle Column
Description:	Counter current caustic scrubber
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:	
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):	1.2
Maximum Operating Liquid Flow Rate (gpm):	na
Method of Monitoring Liquid Flow Rate:	Gauge
Minimum Operating Gas Flow Rate (acfm):	
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	0.5
Maximum Operating Pressure Drop (in. H2O):	2
Method of Monitoring Pressure Drop:	n/a
Relative Direction of the Gas-Liquid Flow:	counter-current
Number of Plates:	17
Type of Plates:	Baffle plates, made of Teflon

Spacing Between Plates (in.):	0.7
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?	NO
Have you attached a diagram showing the location and/or configuration of this control apparatus?	YES
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1503 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	
Manufacturer:	Koertrol
Model:	7010
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	Yes- sulfuric acid and iodine vapors
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):	40
Maximum Operating Liquid Flow Rate (gpm):	70
Method of Monitoring Liquid Flow Rate:	Continuous Flow Rate Monitor
Minimum Operating Gas Flow Rate (acfm):	11.7
Maximum Operating Gas Flow Rate (acfm):	21.3
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	0.5
Maximum Operating Pressure Drop (in. H2O):	1
Method of Monitoring Pressure Drop:	Pressure Drop Monitor
Throat Length (in):	30
Throat Diameter (in):	6
Liquid Introduction Mechanism:	Nozzle
Type of Nozzle:	Type 622 S&K
Maximum Inlet Gas Temperature (deg F):	107.5

65473 CHAMBERS WORKS BOP240002 CD1503 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Outlet Gas Temperature (deg F):	75
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1504 (Scrubber (Other))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
Scrubber Type:	BUBBLE TANK
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):	STATIC
Maximum Operating Liquid Flow Rate (gpm):	STATIC
Method of Monitoring Liquid Flow Rate:	ADMINISTRATIVE CONTROLS
Minimum Operating Gas Flow Rate (acfm):	525
Maximum Operating Gas Flow Rate (acfm):	875
Method of Monitoring Gas Flow Rate:	Administrative Controls
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	N/A
Number of Plates:	
Type of Plates:	

65473 CHAMBERS WORKS BOP240002 CD1504 (Scrubber (Other))
Print Date: 6/19/2025

Spacing Between Plates (in.):	
Maximum Inlet Gas Temperature (deg F):	200
Maximum Outlet Gas Temperature (deg F):	120
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:	pH > o=10
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:	Gas flow rate, ft3/min: 700 Water reservoir, gals: 660 (working) Gas inlet dia., in's: 10 (submerged) Gas outlet dia., in's: 10

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1505 (Scrubber (Other))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
Scrubber Type:	Separator
Description:	PFA (Perfluoroalkoxy) lined FRP (Fibre-Reinforced Plastic), 2ft. diameter, 3ft. high, lower 2ft. are conical.
Is the Scrubber used for Particulate Control?	
Is the Scrubber used for Gas Control?	
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):	
Maximum Operating Gas Flow Rate (acfm):	

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:	
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):	This control device is included in CS1506, under SB-41, with SR-41, SP-43, and SP-48
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

65473 CHAMBERS WORKS BOP240002 CD1505 (Scrubber (Other))
Print Date: 6/19/2025

Comments:

Materials enter through a tangential inlet in the upper portion. Entrained liquid is discharged to waste water treatment plant

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	99%
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	
SO3	99%

Make:	Hetron 197-3
Manufacturer:	
Model:	lined w/ Armalon
Maximum Air Flow Rate to Control Device (acfm):	
Maximum Temperature of Vapor Stream to Control Device (deg F):	
Minimum Temperature of Vapor Stream to Control Device (deg F):	
Minimum Moisture Content of Vapor Stream to Control Device (%):	
Minimum Pressure Drop Across Control Device (in. H20):	
Maximum Pressure Drop Across Control Device (in. H20):	
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:	Included in SB-41, with SR-41, SP-43, and SP-48

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1509 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	
Manufacturer:	Monsanto
Model:	Enviro-Chem Mist Eliminator
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	NO
Is the Scrubber Equipped with a Mist Eliminator?	YES (it is 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):	0.5
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	Flow meter
Minimum Operating Gas Flow Rate (acfm):	
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	

65473 CHAMBERS WORKS BOP240002 CD1509 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (in. H2O):	1
Method of Monitoring Pressure Drop:	
Throat Length (in):	
Throat Diameter (in):	
Liquid Introduction Mechanism:	
Type of Nozzle:	
Maximum Inlet Gas Temperature (deg F):	140
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:	Replaced 3/15/2013 with a scrubber constructed of more corrosion resistant material.

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1510 (Scrubber (Other))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	Swirling Water Contactor
Scrubber Type:	Dental Bowl
Description:	3.2 gal. capacity
Is the Scrubber used for Particulate Control?	Yes, SO2 and SO3 fumes
Is the Scrubber used for Gas Control?	
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):	5
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	Flow Gauge
Minimum Operating Gas Flow Rate (acfm):	
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	

Minimum Operating Pressure Drop (in. H2O):	28
Maximum Operating Pressure Drop (in. H2O):	138
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	Tangential
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?	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:	Construction material upgraded from CS to Hastelloy C (4/1/2012)

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

Make:	
Manufacturer:	
Model:	Water break separator
Maximum Air Flow Rate to Control Device (acfm):	
Maximum Temperature of Vapor Stream to Control Device (deg F):	
Minimum Temperature of Vapor Stream to Control Device (deg F):	
Minimum Moisture Content of Vapor Stream to Control Device (%):	
Minimum Pressure Drop Across Control Device (in. H20):	
Maximum Pressure Drop Across Control Device (in. H20):	
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1514 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	
Manufacturer:	Schutte & Koerting
Model:	steam jet
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):	40
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	Flow Gauge
Minimum Operating Gas Flow Rate (acfm):	0.01
Maximum Operating Gas Flow Rate (acfm):	0.05
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	.6798 in H2O (.05 in Hg)
Maximum Operating Pressure Drop (in. H2O):	407.865 in H2O (30 in Hg)
Method of Monitoring Pressure Drop:	Pressure Drop Meter
Throat Length (in):	75 5/8, 35 5/16, 8 7/8
Throat Diameter (in):	8, 4, 1
Liquid Introduction Mechanism:	Pipe
Type of Nozzle:	Single
Maximum Inlet Gas Temperature (deg F):	250

65473 CHAMBERS WORKS BOP240002 CD1514 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Outlet Gas Temperature (deg F):	150
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1602 (Condenser)
Print Date: 6/19/2025

Make:	
Manufacturer:	Shutte and Koerting
Model:	63XE-1P
Condenser Type:	shell and tube
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):	100
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):	23
Maximum Cooling Medium Inlet Temperature (deg F):	80
Minimum Cooling Medium Outlet Temperature (deg F):	50
Maximum Cooling Medium Outlet Temperature (deg F):	90
Minimum Gas Outlet Temperature (deg F):	
Maximum Gas Outlet Temperature (deg F):	

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Print Date: 6/19/2025

Minimum Condensate Outlet Temperature (deg F):	
Maximum Condensate Outlet Temperature (deg F):	122
Type of Cooling Medium:	
Use of Condenser:	
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 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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1606 (Condenser)
Print Date: 6/19/2025

Make:	
Manufacturer:	DeDietrich
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):	40
Maximum Cooling Medium Inlet Temperature (deg F):	80
Minimum Cooling Medium Outlet Temperature (deg F):	50
Maximum Cooling Medium Outlet Temperature (deg F):	90
Minimum Gas Outlet Temperature (deg F):	
Maximum Gas Outlet Temperature (deg F):	

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Print Date: 6/19/2025

Minimum Condensate Outlet Temperature (deg F):	
Maximum Condensate Outlet Temperature (deg F):	158
Type of Cooling Medium:	water
Use of Condenser:	
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:	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?	
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1607 (Condenser)
Print Date: 6/19/2025

Make:	
Manufacturer:	Fluid Handling, LLC
Model:	04024 SSCF
Condenser Type:	Shell & Tube
Type of Material of Which Shell Is Constructed:	316 stainless steel
Type of Material of Which Tubes Are Constructed:	316 stainless steel
Minimum Gas Inlet Temperature (°F):	68.0
Maximum Gas Inlet Temperature (°F):	68.0
Heat Transfer (Contact) Surface Area (ft^2):	14.1
Maximum Gas Flow (acfm):	0.5
Minimum Cooling Medium Flow Rate (gpm):	6.0
Maximum Cooling Medium Flow Rate (gpm):	8.0
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (°F):	14
Maximum Cooling Medium Inlet Temperature (°F):	21
Minimum Cooling Medium Outlet Temperature (°F):	14
Maximum Cooling Medium Outlet Temperature (°F):	26.6
Minimum Gas Outlet Temperature (°F):	14
Maximum Gas Outlet Temperature (°F):	37
Minimum Condensate Outlet Temperature (°F):	20
Maximum Condensate Outlet Temperature (°F):	26.6
Type of Cooling Medium:	sodium chloride solution
Use of Condensate:	
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 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:

65473 CHAMBERS WORKS BOP240002 CD1608 (Condenser)
Print Date: 6/19/2025

Make:	
Manufacturer:	Doyle-Roth
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):	14.1
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):	23
Minimum Cooling Medium Outlet Temperature (deg F):	
Maximum Cooling Medium Outlet Temperature (deg F):	25
Minimum Gas Outlet Temperature (deg F):	
Maximum Gas Outlet Temperature (deg F):	

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Print Date: 6/19/2025

Minimum Condensate Outlet Temperature (deg F):	
Maximum Condensate Outlet Temperature (deg F):	100
Type of Cooling Medium:	
Use of Condenser:	
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 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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1619 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Make:	
Manufacturer:	RAS
Model:	
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):	NO PUMP
Maximum Pump Discharge Pressure (in. H2O):	NO PUMP
Method of Monitoring Pump Discharge Pressure:	NO PUMP
Minimum Pump Current (amps):	NO PUMP
Maximum Pump Current (amps):	NO PUMP
Method of Monitoring Pump Current:	NO PUMP
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	0
Maximum Operating Liquid Flow Rate (gpm):	40
Method of Monitoring Liquid Flow Rate:	FLOW ORIFICE
Minimum Operating Gas Flow Rate (acfm):	0
Maximum Operating Gas Flow Rate (acfm):	225
Method of Monitoring Gas Flow Rate:	FLOWMETER
Minimum Operating Pressure Drop (In H2O):	0

65473 CHAMBERS WORKS BOP240002 CD1619 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (In H2O):	20
Method of Monitoring Pressure Drop:	Diff. Transmitter
Relative Direction of the Gas-Liquid Flow:	COUNTER - CURRENT
Height of Packed Section (ft):	18
Type of Packing Material:	NORTON IMPT #25
Size of Packing Material:	518"
Tower Diameter (ft):	1.5
Total Tower Height (ft):	26.35
Maximum Operating Temperature of the Inlet Gas (deg F):	77
Maximum Operating Temperature of the Exhaust Gas (deg F):	95
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:	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?	
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1620 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	
Manufacturer:	Penberthy
Model:	1" Type ELL Kynar-lined Exhauster
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	wastewater sump
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):	8.5
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	none
Minimum Operating Gas Flow Rate (acfm):	0.3375
Maximum Operating Gas Flow Rate (acfm):	0.5625
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	10 in. Hg
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Throat Length (in):	7 1/8"
Throat Diameter (in):	1"
Liquid Introduction Mechanism:	nozzle
Type of Nozzle:	Manufacturer's standard
Maximum Inlet Gas Temperature (deg F):	56.25

65473 CHAMBERS WORKS BOP240002 CD1620 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Outlet Gas Temperature (deg F):	93.75
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1621 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	
Manufacturer:	Penberthy
Model:	1" Type ELL Kynar-lined Exhauster
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	wastewater sump
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):	8.5
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	none
Minimum Operating Gas Flow Rate (acfm):	0.3375
Maximum Operating Gas Flow Rate (acfm):	0.5625
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	10 in. Hg
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Throat Length (in):	7 1/8"
Throat Diameter (in):	1"
Liquid Introduction Mechanism:	nozzle
Type of Nozzle:	Manufacturer's standard
Maximum Inlet Gas Temperature (deg F):	56.25

65473 CHAMBERS WORKS BOP240002 CD1621 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Outlet Gas Temperature (deg F):	93.75
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1622 (Condenser)
Print Date: 6/19/2025

Make:	
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):	4.19
Maximum Gas Flow (acfm):	
Minimum Cooling Medium Flow Rate (gpm):	1
Maximum Cooling Medium Flow Rate (gpm):	10
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):	

65473 CHAMBERS WORKS BOP240002 CD1622 (Condenser)
Print Date: 6/19/2025

Minimum Condensate Outlet Temperature (deg F):	
Maximum Condensate Outlet Temperature (deg F):	
Type of Cooling Medium:	
Use of Condenser:	condensation - dissolution of vapors
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?	YES
Comments:	8" dia. X 24" high Monel tank with top-center EST water spray nozzle at 14 gpm, for condensation - dissolution of vapors (side entry) from process.

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1623 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	TYPE 202
Manufacturer:	EST
Model:	
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):	
Maximum Operating Liquid Flow Rate (gpm):	124 pph
Method of Monitoring Liquid Flow Rate:	none
Minimum Operating Gas Flow Rate (acfm):	0
Maximum Operating Gas Flow Rate (acfm):	3
Method of Monitoring Gas Flow Rate:	none
Minimum Operating Pressure Drop (in. H2O):	4.8 (20 in. Hg)
Maximum Operating Pressure Drop (in. H2O):	15
Method of Monitoring Pressure Drop:	
Throat Length (in):	
Throat Diameter (in):	
Liquid Introduction Mechanism:	nozzle
Type of Nozzle:	
Maximum Inlet Gas Temperature (deg F):	212

65473 CHAMBERS WORKS BOP240002 CD1623 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Outlet Gas Temperature (deg F):	75
Inlet Particle Grain Loading (gr/dscf):	N/A
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1624 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
Is the Scrubber used for Particulate Control?	
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):	50
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	3748.5
Maximum Operating Gas Flow Rate (acfm):	6247.5
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (In H2O):	

65473 CHAMBERS WORKS BOP240002 CD1624 (Scrubber (Packed Tower))
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Maximum Operating Pressure Drop (In H2O):	
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	counter-current
Height of Packed Section (ft):	21
Type of Packing Material:	polypropylene saddles
Size of Packing Material:	3"
Tower Diameter (ft):	4
Total Tower Height (ft):	25
Maximum Operating Temperature of the Inlet Gas (deg F):	
Maximum Operating Temperature of the Exhaust Gas (deg F):	
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?	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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1625 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
Is the Scrubber used for Particulate Control?	
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	0.833 ft dia X 1 ft. disengagement volume Disengagement space
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):	18.75
Maximum Operating Liquid Flow Rate (gpm):	31.25
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	9
Maximum Operating Gas Flow Rate (acfm):	15
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (In H2O):	3

65473 CHAMBERS WORKS BOP240002 CD1625 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (In H2O):	5
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	counter-current
Height of Packed Section (ft):	10
Type of Packing Material:	polypropylene flexirings
Size of Packing Material:	1"
Tower Diameter (ft):	0.833
Total Tower Height (ft):	12
Maximum Operating Temperature of the Inlet Gas (deg F):	
Maximum Operating Temperature of the Exhaust Gas (deg F):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	14
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1626 (Scrubber (Other))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
Scrubber Type:	Vapor containment vessel
Description:	
Is the Scrubber used for Particulate Control?	
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	Disengagement Space
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):	
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	

65473 CHAMBERS WORKS BOP240002 CD1626 (Scrubber (Other))
Print Date: 6/19/2025

Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
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?	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:	scrubber used to control relief device vapors during an emergency

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1629 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	SCRUBBER SEPARATOR SYSTEM
Manufacturer:	SCHUTTE AND KOETERING
Model:	7014
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	NO
Is the Scrubber Equipped with a Mist Eliminator?	YES
Minimum Pump Discharge Pressure (in. H2O):	NOT APPLICABLE
Maximum Pump Discharge Pressure (in. H2O):	NOT APPLICABLE
Method of Monitoring Pump Discharge Pressure:	NOT APPLICABLE
Minimum Pump Current (amps):	NOT APPLICABLE
Maximum Pump Current (amps):	NOT APPLICABLE
Method of Monitoring Pump Current:	NOT APPLICABLE
Minimum Scrubber Medium Inlet Pressure (in. H2O):	554
Minimum Operating Liquid Flow Rate (gpm):	3.4
Maximum Operating Liquid Flow Rate (gpm):	7.6
Method of Monitoring Liquid Flow Rate:	DRAFT (i.e. inwc negative pressure) on the process side jet inlet.
Minimum Operating Gas Flow Rate (acfm):	18
Maximum Operating Gas Flow Rate (acfm):	146
Method of Monitoring Gas Flow Rate:	DRAFT (i.e. inwc negative pressure) on the process side jet inlet.
Minimum Operating Pressure Drop (in. H2O):	0.25

65473 CHAMBERS WORKS BOP240002 CD1629 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (in. H2O):	3
Method of Monitoring Pressure Drop:	DRAFT (i.e. inwc negative pressure) on the process side jet inlet.
Throat Length (in):	21
Throat Diameter (in):	4"
Liquid Introduction Mechanism:	Plant Water Header
Type of Nozzle:	Water Ejector/Venturi
Maximum Inlet Gas Temperature (deg F):	158
Maximum Outlet Gas Temperature (deg F):	80
Inlet Particle Grain Loading (gr/dscf):	NOT APPLICABLE
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:	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?	
Comments:	water only used for scrubbing

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1631 (Condenser)
Print Date: 6/19/2025

Make:	Condenser C-403
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):	
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1632 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	Scrubber J-319
Manufacturer:	
Model:	
Is the Scrubber used for Particulate Control?	
Is the Scrubber used for Gas Control?	
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):	
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	

65473 CHAMBERS WORKS BOP240002 CD1632 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Throat Length (in):	
Throat Diameter (in):	
Liquid Introduction Mechanism:	
Type of Nozzle:	
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1633 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	Scrubber J-320
Manufacturer:	
Model:	
Is the Scrubber used for Particulate Control?	
Is the Scrubber used for Gas Control?	
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):	
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	

65473 CHAMBERS WORKS BOP240002 CD1633 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Throat Length (in):	
Throat Diameter (in):	
Liquid Introduction Mechanism:	
Type of Nozzle:	
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1702 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	
Manufacturer:	Schutte & Koerting
Model:	Figure 7010
Is the Scrubber Used for Particulate Control?	○ Yes ● No
Is the Scrubber Used for Gas Control?	○ Yes ● No
Is the Scrubber Equipped with a Mist Eliminator?	○ Yes ● No
Minimum Pump Discharge Pressure (in. H20):	
Maximum Pump Discharge Pressure (in. H20):	
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. H20):	
Minimum Operating Liquid Flow Rate (gpm):	2.00
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H20):	
Maximum Operating Pressure Drop (in. H20):	
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	
Description:	
Throat Length (in):	
Throat Diameter (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):	
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
Have you attached a diagram showing the location and/or configuration of this control apparatus?	○ Yes ● No

65473 CHAMBERS WORKS BOP240002 CD1702 (Scrubber (Venturi))
Print Date: 6/19/2025

Comments:	Material of construction changed from Monel® to Hastelloy C-2000. (BOP170004).

65473 CHAMBERS WORKS BOP240002 CD1703 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Make:	
Manufacturer:	RL Industries
Model:	FRP Scrubber
Is the Scrubber Used for Particulate Control?	○ Yes ● No
Is the Scrubber Used for Gas Control?	● Yes ○ No
Is the Scrubber Equipped with a Mist Eliminator?	○ Yes ● No
Minimum Pump Discharge Pressure (in. H20):	
Maximum Pump Discharge Pressure (in. H20):	
Method of Monitoring Pump Discharge Pressure:	NA
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	NA
Minimum Scrubber Medium Inlet Pressure (in. H20):	
Minimum Operating Liquid Flow Rate (gpm):	1.67
Maximum Operating Liquid Flow Rate (gpm):	4.00
Method of Monitoring Liquid Flow Rate:	flow meter
Minimum Operating Gas Flow Rate (acfm):	1,000.00
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	flow meter
Minimum Operating Pressure Drop (in. H20):	5.00
Maximum Operating Pressure Drop (in. H20):	15.00
Method of Monitoring Pressure Drop:	differential pressure transmitter
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Height of Packed Section (ft):	18
Type of Packing Material:	intalox saddles
Size of Packing Material (in):	1
Tower Diameter (ft):	0.50
Total Tower Height (ft):	27.00
Maximum Operating Temperature of the Inlet Gas (°F):	125.0
Maximum Operating Temperature of the Exhuast Gas(°F):	125.0
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?	○ Yes ● No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	○ 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

Comments:

65473 CHAMBERS WORKS BOP240002 CD1704 (Scrubber (Other))
Print Date: 6/19/2025

Make:	
Manufacturer:	Enerfab
Model:	
Scrubber Type:	PLATE TOWER
Description:	
Is the Scrubber used for Particulate Control?	NO
Is the Scrubber used for Gas Control?	NO
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):	5
Maximum Operating Liquid Flow Rate (gpm):	60
Method of Monitoring Liquid Flow Rate:	FLOW RECORDER
Minimum Operating Gas Flow Rate (acfm):	4
Maximum Operating Gas Flow Rate (acfm):	8
Method of Monitoring Gas Flow Rate:	NOT MEASURED

Minimum Operating Pressure Drop (in. H2O):	0.5
Maximum Operating Pressure Drop (in. H2O):	5
Method of Monitoring Pressure Drop:	NOT MEASURED
Relative Direction of the Gas-Liquid Flow:	CO-CURRENT
Number of Plates:	
Type of Plates:	
Spacing Between Plates (in.):	
Maximum Inlet Gas Temperature (deg F):	
Maximum Outlet Gas Temperature (deg F):	EXHAUST GAS AMBIENT 60 - 90
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?	

65473 CHAMBERS WORKS BOP240002 CD1704 (Scrubber (Other))
Print Date: 6/19/2025

Comments:

The tank is made of SA516-70 Carbon Steel. The packed section is 4.67ft in diameter. The tank is 5 ft in diameter and approximately 9 ft tall (7 ft tangent to tangent). The volume of the tank is 1,150gallons.

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD1705 (Adsorber)
Print Date: 6/19/2025

Make:	
Manufacturer:	Calgon Carbon
Model:	
Adsorber Type:	FN
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	
Maximum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Actvated Carbon
Bed Height:	2.75
Bed Length:	
Bed Width:	1.8
Units:	Feet
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorbant (in. H20):	
Maximum Pressure Drop Across Adsorber (in. H20):	
Total Weight of Adsorbant (lbs):	
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	

Method of Determining Breakthrough (check all that apply):

Continuous Emissions Monitor (CEM):	☐
Replacement By Weight:	☐
Periodic Testing:	☐
Sampling Frequency:	
Sampling Device:	
Other:	☐
Description:	
Minimum Concentration at Breakthrough (ppmvd):	
Handling Method of Saturated Adsorbant:	Disposed of off-site
Method of Regeneration:	

65473 CHAMBERS WORKS BOP240002 CD1705 (Adsorber)
Print Date: 6/19/2025

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 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:	Inline with the process piping venting to SB-163 (CD1703)

65473 CHAMBERS WORKS BOP240002 CD1800 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Make:	SMPF Scrubber CL-2
Manufacturer:	Newark Welding
Model:	
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):	400
Maximum Pump Discharge Pressure (in. H2O):	2000
Method of Monitoring Pump Discharge Pressure:	Pressure Transmitter
Minimum Pump Current (amps):	1 amp
Maximum Pump Current (amps):	5 AMP
Method of Monitoring Pump Current:	None
Minimum Scrubber Medium Inlet Pressure (in. H2O):	NA
Minimum Operating Liquid Flow Rate (gpm):	20
Maximum Operating Liquid Flow Rate (gpm):	150
Method of Monitoring Liquid Flow Rate:	Flow Meter
Minimum Operating Gas Flow Rate (acfm):	1 SCFM
Maximum Operating Gas Flow Rate (acfm):	1000 SCFM
Method of Monitoring Gas Flow Rate:	None
Minimum Operating Pressure Drop (In H2O):	0

65473 CHAMBERS WORKS BOP240002 CD1800 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (In H2O):	30
Method of Monitoring Pressure Drop:	Pressure Transmitters
Relative Direction of the Gas-Liquid Flow:	Countercurrent
Height of Packed Section (ft):	25
Type of Packing Material:	316 ss Norton IMTP
Size of Packing Material:	#40
Tower Diameter (ft):	2.5 feet
Total Tower Height (ft):	33 feet
Maximum Operating Temperature of the Inlet Gas (deg F):	100 deg F
Maximum Operating Temperature of the Exhaust Gas (deg F):	170 deg F
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:	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:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD2000 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
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):	2
Maximum Operating Liquid Flow Rate (gpm):	20
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	0.083
Maximum Operating Gas Flow Rate (acfm):	0.83
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (In H2O):	.1 / ft PACKING

65473 CHAMBERS WORKS BOP240002 CD2000 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (In H2O):	1.5 / ft PACKING
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	COUNTER-CURRENT
Height of Packed Section (ft):	UP TO 8'
Type of Packing Material:	RINGS, SADDLES
Size of Packing Material:	1/4" - 2"
Tower Diameter (ft):	UP TO 6"
Total Tower Height (ft):	UP TO 10'
Maximum Operating Temperature of the Inlet Gas (deg F):	
Maximum Operating Temperature of the Exhaust Gas (deg F):	100
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 Tab

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD2001 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
Is the Scrubber used for Particulate Control?	
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	N/A
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:	
Minimum Operating Gas Flow Rate (acfm):	0.1
Maximum Operating Gas Flow Rate (acfm):	4
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	2.5 in Hg

65473 CHAMBERS WORKS BOP240002 CD2001 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (in. H2O):	30 in Hg
Method of Monitoring Pressure Drop:	
Throat Length (in):	14"
Throat Diameter (in):	1"
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	SINGLE
Maximum Inlet Gas Temperature (deg F):	100
Maximum Outlet Gas Temperature (deg F):	100
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD2002 (Condenser)
Print Date: 6/19/2025

Make:	
Manufacturer:	ARTISAN
Model:	
Condenser Type:	TUBE AND SHELL
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):	300
Heat Transfer (Contact) Surface Area (ft2):	22
Maximum Gas Flow (acfm):	50
Minimum Cooling Medium Flow Rate (gpm):	UP TO 10
Maximum Cooling Medium Flow Rate (gpm):	10
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	20 BRINE, 65 WATER, 150 HOT OIL, 212 STEAM, AMBIENT AIR, -320 LIQUID NITROGEN, -109 DRY ICE, ETHYLENE GLYCOL AND OTHER ORGANICS VARY
Maximum Cooling Medium Inlet Temperature (deg F):	25 BRINE, 90 WATER, 300 HOT OIL, 378 STEAM
Minimum Cooling Medium Outlet Temperature (deg F):	20 BRINE, 70 WATER, 155 HOT OIL, 212 STEAM, -320 LIQUID NITROGEN, -109 DRY ICE, ETHYLENE GLYCOL AND OTHER ORGANICS VARY
Maximum Cooling Medium Outlet Temperature (deg F):	30 BRINE, 95 WATER, 255 HOT OIL, 390 STEAM
Minimum Gas Outlet Temperature (deg F):	

Maximum Gas Outlet Temperature (deg F):	200
Minimum Condensate Outlet Temperature (deg F):	
Maximum Condensate Outlet Temperature (deg F):	
Type of Cooling Medium:	BRINE, WATER, HOT OIL, STEAM, AIR, LIQUID NITROGEN, DRY ICE, ETHYLENE GLYCOL, AND OTHER ORGANICS
Use of Condenser:	
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?	NO
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD2003 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
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):	2
Maximum Operating Liquid Flow Rate (gpm):	20
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	0.0083
Maximum Operating Gas Flow Rate (acfm):	0.083
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (In H2O):	0

65473 CHAMBERS WORKS BOP240002 CD2003 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (In H2O):	1.5 / ft PACKING
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	COUNTER-CURRENT
Height of Packed Section (ft):	4
Type of Packing Material:	
Size of Packing Material:	1/4" - 2"
Tower Diameter (ft):	6"
Total Tower Height (ft):	5' 10"
Maximum Operating Temperature of the Inlet Gas (deg F):	
Maximum Operating Temperature of the Exhaust Gas (deg F):	
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?	
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD2006 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
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):	5
Maximum Operating Liquid Flow Rate (gpm):	85
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	UP TO 6
Maximum Operating Gas Flow Rate (acfm):	6
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	2.5 in Hg

65473 CHAMBERS WORKS BOP240002 CD2006 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (in. H2O):	20 in. Hg w.c.
Method of Monitoring Pressure Drop:	N/A
Throat Length (in):	4" - 24"
Throat Diameter (in):	0.5 - 4
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	SINGLE
Maximum Inlet Gas Temperature (deg F):	250
Maximum Outlet Gas Temperature (deg F):	150
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD2026 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
Is the Scrubber used for Particulate Control?	YES
Is the Scrubber used for Gas Control?	YES
Is the Scrubber Equipped with a Mist Eliminator?	N/A
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
Maximum Operating Liquid Flow Rate (gpm):	31
Method of Monitoring Liquid Flow Rate:	N/A
Minimum Operating Gas Flow Rate (acfm):	0
Maximum Operating Gas Flow Rate (acfm):	4.32
Method of Monitoring Gas Flow Rate:	N/A
Minimum Operating Pressure Drop (in. H2O):	2.5 in Hg VACUUM

65473 CHAMBERS WORKS BOP240002 CD2026 (Scrubber (Venturi))
Print Date: 6/19/2025

Maximum Operating Pressure Drop (in. H2O):	30 in Hg VACUUM
Method of Monitoring Pressure Drop:	N/A
Throat Length (in):	16
Throat Diameter (in):	2
Liquid Introduction Mechanism:	PIPE
Type of Nozzle:	N/A
Maximum Inlet Gas Temperature (deg F):	250
Maximum Outlet Gas Temperature (deg F):	150
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD3002 (Particulate Filter (Baghouse))
Print Date: 6/19/2025

Make:	BAGHOUSE TE-27
Manufacturer:	
Model:	
Number of Bags:	32
Size of Bags (ft2):	5 3/4"x100"
Total Bag Area (ft2):	320
Bag Fabric:	Polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	Felt
Fabric Finish:	Glazed
Maximum Design Temperature Capability (deg F):	
Maximum Design Air Flow Rate (acfm):	
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	3.3:1
Minimum Operating Pressure Drop (in. H2O):	0
Maximum Operating Pressure Drop (in. H2O):	50
Method of Monitoring Pressure Drop:	20
Maximum Inlet Temperature (deg F):	200
Minimum Inlet Temperature (deg F):	200
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	2,000
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

Pollutant Category	Design Efficiency (%)
PM-10	99.9
TSP	99.9
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD3004 (Particulate Filter (Baghouse))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
Number of Bags:	39
Size of Bags (ft2):	5 3/4" x 100"
Total Bag Area (ft2):	390
Bag Fabric:	Polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	Felt
Fabric Finish:	Glazed
Maximum Design Temperature Capability (deg F):	
Maximum Design Air Flow Rate (acfm):	
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	3.8:1
Minimum Operating Pressure Drop (in. H2O):	0
Maximum Operating Pressure Drop (in. H2O):	50
Method of Monitoring Pressure Drop:	20
Maximum Inlet Temperature (deg F):	100
Minimum Inlet Temperature (deg F):	100
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	2,500
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD3006 (Particulate Filter (Baghouse))
Print Date: 6/19/2025

Make:	BAGHOUSE TE-29
Manufacturer:	
Model:	
Number of Bags:	32
Size of Bags (ft2):	5-3/4" x 100"
Total Bag Area (ft2):	320
Bag Fabric:	Polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	Felt
Fabric Finish:	Glazed
Maximum Design Temperature Capability (deg F):	
Maximum Design Air Flow Rate (acfm):	
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	3.3:1
Minimum Operating Pressure Drop (in. H2O):	0
Maximum Operating Pressure Drop (in. H2O):	50
Method of Monitoring Pressure Drop:	20
Maximum Inlet Temperature (deg F):	Ambient
Minimum Inlet Temperature (deg F):	Ambient
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	2,000
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:	Reverse Air
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

Pollutant Category	Design Efficiency (%)
PM-10	99.9
TSP	99.9
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD3008 (Particulate Filter (Baghouse))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
Number of Bags:	39
Size of Bags (ft2):	5-3/4" x 100"
Total Bag Area (ft2):	390
Bag Fabric:	Polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	Felt
Fabric Finish:	Glazed
Maximum Design Temperature Capability (deg F):	
Maximum Design Air Flow Rate (acfm):	
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	3.8:1
Minimum Operating Pressure Drop (in. H2O):	0
Maximum Operating Pressure Drop (in. H2O):	50
Method of Monitoring Pressure Drop:	
Maximum Inlet Temperature (deg F):	100
Minimum Inlet Temperature (deg F):	100
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	2,500
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD3013 (Scrubber (Other))
Print Date: 6/19/2025

Make:	SCRUBBER SB-132
Manufacturer:	
Model:	
Scrubber Type:	
Description:	
Is the Scrubber used for Particulate Control?	
Is the Scrubber used for Gas Control?	
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):	3
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	
Maximum Operating Gas Flow Rate (acfm):	
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:	
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

Pollutant Category	Design Efficiency (%)
PM-10	99.5
TSP	99.5
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD3015 (Scrubber (Other))
Print Date: 6/19/2025

Make:	SCRUBBER SB-26
Manufacturer:	
Model:	
Scrubber Type:	
Description:	Disk & Donut
Is the Scrubber used for Particulate Control?	
Is the Scrubber used for Gas Control?	
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):	50
Maximum Operating Liquid Flow Rate (gpm):	300
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	5000
Maximum Operating Gas Flow Rate (acfm):	10000
Method of Monitoring Gas Flow Rate:	

Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	mass meter
Relative Direction of the Gas-Liquid Flow:	co-current
Number of Plates:	
Type of Plates:	
Spacing Between Plates (in.):	
Maximum Inlet Gas Temperature (deg F):	210
Maximum Outlet Gas Temperature (deg F):	100
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

Pollutant Category	Design Efficiency (%)
PM-10	99.9
TSP	99.9
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD3031 (Scrubber (Venturi))
Print Date: 6/19/2025

Make:	JET VENTURI FUME SCRUBBER
Manufacturer:	CROLL-REYNOLDS CO, INC.
Model:	22
Is the Scrubber Used for Particulate Control?	○ Yes ● No
Is the Scrubber Used for Gas Control?	● Yes ○ No
Is the Scrubber Equipped with a Mist Eliminator?	○ Yes ● No
Minimum Pump Discharge Pressure (in. H20):	
Maximum Pump Discharge Pressure (in. H20):	
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. H20):	
Minimum Operating Liquid Flow Rate (gpm):	20.00
Maximum Operating Liquid Flow Rate (gpm):	26.90
Method of Monitoring Liquid Flow Rate:	ROTAMETER
Minimum Operating Gas Flow Rate (acfm):	
Maximum Operating Gas Flow Rate (acfm):	16.20
Method of Monitoring Gas Flow Rate:	NONE
Minimum Operating Pressure Drop (in. H20):	
Maximum Operating Pressure Drop (in. H20):	
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	Co-Current
Description:	
Throat Length (in):	
Throat Diameter (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):	
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
Have you attached a diagram showing the location and/or configuration of this control apparatus?	○ Yes ● No

65473 CHAMBERS WORKS BOP240002 CD3031 (Scrubber (Venturi))
Print Date: 6/19/2025

Comments:

65473 CHAMBERS WORKS BOP240002 CD3130 (Particulate Filter (Baghouse))
Print Date: 6/19/2025

Make:	
Manufacturer:	
Model:	
Number of Bags:	39
Size of Bags (ft²):	3.99
Total Bag Area (ft²):	390.0
Bag Fabric:	Polyester
Fabric Weight (oz/ft²):	16.00
Fabric Weave:	Felt
Fabric Finish:	Glazed
Maximum Design Temperature Capability (°F):	
Maximum Design Air Flow Rate (acfm):	
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	3.80
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	50.00
Method of Monitoring Pressure Drop:	
Maximum Inlet Temperature (°F):	100.0
Minimum Inlet Temperature (°F):	100.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhuast Gas Flow Rate (acfm):	2,500.0
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
Description:	
Is Bag Cleaning Conducted On-Line?	○ Yes ● 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 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:

65473 CHAMBERS WORKS BOP240002 CD5501 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Make:	SCRUBBER-PACKED TOWER SB-305
Manufacturer:	
Model:	
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):	0.5
Maximum Operating Liquid Flow Rate (gpm):	1.5
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	1300
Maximum Operating Gas Flow Rate (acfm):	1500
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (In H2O):	
Maximum Operating Pressure Drop (In H2O):	

65473 CHAMBERS WORKS BOP240002 CD5501 (Scrubber (Packed Tower))
Print Date: 6/19/2025

Method of Monitoring Pressure Drop:	None
Relative Direction of the Gas-Liquid Flow:	Counter-current
Height of Packed Section (ft):	15
Type of Packing Material:	
Size of Packing Material:	
Tower Diameter (ft):	
Total Tower Height (ft):	19.8
Maximum Operating Temperature of the Inlet Gas (deg F):	
Maximum Operating Temperature of the Exhaust Gas (deg F):	80
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

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	
HYROCHLORIC ACID	99

65473 CHAMBERS WORKS BOP240002 CD5502 (Particulate Filter (Baghouse))
Print Date: 6/19/2025

Make:	PARTICULATE FILTER F-165
Manufacturer:	
Model:	
Number of Bags:	12
Size of Bags (ft²):	
Total Bag Area (ft²):	57.0
Bag Fabric:	
Fabric Weight (oz/ft²):	
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (°F):	250.0
Maximum Design Air Flow Rate (acfm):	300.0
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	5.26
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Maximum Inlet Temperature (°F):	105.0
Minimum Inlet Temperature (°F):	35.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhuast 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
Description:	
Is Bag Cleaning Conducted On-Line?	○ Yes ● 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 a Particle Size Distribution Analysis?	○ Yes ● No

65473 CHAMBERS WORKS BOP240002 CD5502 (Particulate Filter (Baghouse))
Print Date: 6/19/2025

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:	Control Device particulate control efficiency >= 99%

65473 CHAMBERS WORKS BOP240002 CD5503 (Particulate Filter (Baghouse))
Print Date: 6/19/2025

Make:	CUNO FILTER F-166
Manufacturer:	
Model:	
Number of Bags:	1
Size of Bags (ft2):	9.75" O.D. x 6.75"ID x 14"L
Total Bag Area (ft2):	14.8
Bag Fabric:	
Fabric Weight (oz/ft):	
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (deg F):	200
Maximum Design Air Flow Rate (acfm):	500
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	33 FT/MIN
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
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):	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
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	99
TSP	99
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD5505 (Particulate Filter (Cartridge))
Print Date: 6/19/2025

Make:	Particulate Filter - Cartridge
Manufacturer:	Aeropulse
Model:	216-10H-WP
Number of Cartridges:	216
Size of Cartridges (ft^2):	12.00
Total Cartridge Area (ft^2):	2,592.00
Maximum Design Temperature Capability (°F):	150.0
Maximum Design Air Flow Rate (acfm):	18,000.0
Maximum Air Flow Rate to Filter Area Ratio:	6.94
Minimum Operating Pressure Drop (in. H2O):	0.50
Maximum Operating Pressure Drop (in. H2O):	6.00
Maximum Inlet Temperature (°F):	150.0
Maximum Operating Exhuast Gas Flow Rate (acfm):	5,960.0
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:

65473 CHAMBERS WORKS BOP240002 CD5506 (Condenser)
Print Date: 6/19/2025

Make:	CONDENSER
Manufacturer:	Dupont
Model:	
Condenser Type:	jacketed pipe
Type of Material of Which Shell Is Constructed:	
Type of Material of Which Tubes Are Constructed:	
Minimum Gas Inlet Temperature (deg F):	not needed
Maximum Gas Inlet Temperature (deg F):	not needed
Heat Transfer (Contact) Surface Area (ft2):	
Maximum Gas Flow (acfm):	not needed
Minimum Cooling Medium Flow Rate (gpm):	not needed
Maximum Cooling Medium Flow Rate (gpm):	not needed
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (deg F):	< 43
Maximum Cooling Medium Inlet Temperature (deg F):	< 43
Minimum Cooling Medium Outlet Temperature (deg F):	< 68
Maximum Cooling Medium Outlet Temperature (deg F):	< 68
Minimum Gas Outlet Temperature (deg F):	68
Maximum Gas Outlet Temperature (deg F):	not needed

65473 CHAMBERS WORKS BOP240002 CD5506 (Condenser)
Print Date: 6/19/2025

Minimum Condensate Outlet Temperature (deg F):	not needed
Maximum Condensate Outlet Temperature (deg F):	68
Type of Cooling Medium:	brine
Use of Condenser:	process/vent condenser
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 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:	contaminant outlet temp. to be monitored only when valve to SK-274 is open

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

65473 CHAMBERS WORKS BOP240002 CD5507 (Particulate Filter (Cartridge))
Print Date: 6/19/2025

Make:	PARTICULATE FILTER-CARTRIDGE
Manufacturer:	
Model:	
Number of Cartridges:	2
Size of Cartridges (ft2):	24"x24"x1"
Total Cartridge Area (ft2):	8
Maximum Design Temperature Capability (deg F):	220
Maximum Design Air Flow Rate (acfm):	1600
Maximum Air Flow Rate to Filter Area Ratio:	200:1
Minimum Operating Pressure Drop (in. H2O):	0.5
Maximum Operating Pressure Drop (in. H2O):	5
Maximum Inlet Temperature (deg F):	176
Maximum Operating Exhaust Gas Flow Rate (acfm):	1400-1800
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?	
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?	yes
Comments:	

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	98
TSP	98
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

CHAMBERS WORKS (65473)
BOP240002

Date: 6/24/2025

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.		
PT901	AB-94	Dry Films: AB-94 Stack	Round	1	43	500	-22.0	-50.0	10.0	0.3	0.0	5.0	Up	
PT902	P-1469	Dry Films: P-1469 Stack	Round	1	12	500	50.0	10.0	100.0	1.0	0.0	5.0	Up	
PT903	TE-631	Dry Films: TE-631 Stack	Round	2	24	500	55.0	70.0	85.0	1.2	0.0	10.0	Horizontal	
PT1001	FN-46	PC-BLDG A: FN-46	Round	18	20	430		40.0	160.0		1,000.0	4,000.0	Horizontal	PS 1000
PT1007	FN-3	PC-BLDG A: FN-3	Round	24	50	420		40.0	250.0		1,000.0	4,000.0	Up	PS 1000
PT1012	TW-75	PC-BLDG A: TW-75	Round	2	50	420		40.0	120.0		0.5	8.0	Horizontal	PS 1000
PT1017	XH-3	PC-BLDG A: XH-3	Round	18	50	370		40.0	120.0		1,000.0	4,000.0	Up	PS 1000
PT1018	HW-1	PC-BLDG A: HW-1	Round	8	50	350		200.0	250.0		0.0	50.0	Up	PS 1000
PT1025	TE-8	PC-BLDG A: TE-8	Round	4	50	350		40.0	60.0		0.0	1.5	Down	PS 1000
PT1026	TE-9	PC-BLDG A: TE-9	Round	4	50	375		40.0	60.0		0.0	1.5	Up	PS 1000
PT1034	TS-70	PC-BLDG A: TS-70	Round	3	15	350		40.0	90.0		0.0	2.0	Down	PS 1000
PT1035	TS-71	PC-BLDG A: TS-71	Round	3	15	350		40.0	90.0		0.0	2.0	Down	PS 1000
PT1036	TS-72	PC-BLDG A: TS-72	Round	3	15	350		40.0	90.0		0.0	2.0	Down	PS 1000
PT1049	T-4	PC-BLDG A: T-4	Round	3	35	350		40.0	180.0		0.0	2.2	Up	PS 1000
PT1050	T-29	PC-BLDG A: T-29 Tank Vent	Round	3	45	300		40.0	120.0		0.0	5.5	Up	PS 1000
PT1062	T-45	PC-BLDG A: T-45 Tank Vent	Round	1	45	300		40.0	120.0		0.0	5.5	Horizontal	PS 1000
PT1063	T-38	PC-BLDG A: T-38 Tank Vent	Round	3	45	300		40.0	120.0		0.0	5.5	Horizontal	PS 1000
PT1301	A-14	PC-BLDG 115: A-14	Round	6	40	1,000	160.0	20.0	200.0	10.0	1.0	50.0	Up	PS 1300
PT1303	FN-3	PC-BLDG 115: FN-3	Round	48	50	1,000	110.0	70.0	170.0	20,000.0	0.1	45,000.0	Up	PS 1300

CHAMBERS WORKS (65473)
BOP240002

Date: 6/24/2025

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.		
PT1304	FN-10	PC-BLDG 115: FN-10	Round	14	42	1,000	60.0	20.0	100.0	700.0	0.1	2,500.0	Up	PS 1300
PT1305	HW-2	PC-BLDG 115: HW-2	Round	6	30	1,000	165.0	150.0	190.0	80.0	19.0	130.0	Up	PS 1300
PT1306	J-1	PC-BLDG 115: J-1	Round	2	0	1,000	160.0	150.0	190.0	9.0	0.1	10.0	Down	PS 1300
PT1309	SK-1	PC-BLDG 115: SK-1	Round	4	85	1,000	160.0	20.0	250.0	60.0	0.1	80.0	Up	PS 1300
PT1310	T-53	PC-BLDG 115: T-53	Round	2	55	1,000	90.0	20.0	100.0	10.0	0.1	35.0	Up	PS 1300
PT1311	TS-17/ TS-16	PC-BLDG 115: TS-17/ TS-16	Round	2	55	1,000	100.0	25.0	200.0	55.0	0.1	117.0	Up	PS 1300
PT1312	XH-2	PC-BLDG 115: XH-2	Round	20	82	1,000	90.0	20.0	100.0	1,000.0	0.1	3,450.0	Up	PS 1300
PT1313	HW-3	PC-BLDG 115: HW-3	Round	6	40	1,000	160.0	150.0	190.0	80.0	19.0	130.0	Up	PS 1300
PT1314	K-3	PC-BLDG 115: K-3	Round	2	50	1,000	210.0	90.0	300.0	55.0	0.1	117.0	Up	PS 1300
PT1315	T-19	PC-BLDG 115: T-19	Round	2	50	1,000	60.0	20.0	90.0	10.0	0.1	20.0	Up	PS 1300
PT1316	T-38	PC-BLDG 115: T-38	Round	2	50	1,000	60.0	20.0	90.0	15.0	0.1	40.0	Up	PS 1300
PT1317	SB-47	PC-BLDG 115: SB-47 (water scrubber vent)	Round	1	40	1,000	80.0	32.0	100.0	10.0	0.1	20.0	Down	PS 1300
PT1318	FN-28	PC-BLDG 115: FN-28	Round	10	44	1,000	60.0	10.0	100.0	70.0	0.1	2,500.0	Up	PS 1300
PT1319	HW-1	PC-BLDG 115: HW-1	Round	2	50	1,000	165.0	150.0	190.0	80.0	19.0	130.0	Up	PS 1300
PT1400	BT-1	PC-BLDG 185: THAW BOX BT-1	Rectangle	28	66	1,000		70.0	140.0		0.0	3,000.0	Horizontal	PS 1400
PT1401	FN-1	PC-BLDG 185: FN-1	Round	20	30	1,000		20.0	100.0		0.0	8,000.0	Up	PS 1400
PT1402	FN-2	PC-BLDG 185: FN-2	Round	20	66	1,000		20.0	100.0		0.0	8,000.0	Up	PS 1400
PT1403	FN-3	PC-BLDG 185: FN-3 (exhaust fan)	Round	20	66	1,000		20.0	100.0		0.0	8,000.0	Up	PS 1400

CHAMBERS WORKS (65473)
BOP240002

Date: 6/24/2025

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.		
PT1413	TW-45	PC-BLDG 185: TW-45 THRU TS-45	Round	3	25	1,000	70.0	20.0	180.0		0.0	4.0	Up	PS 1400
PT1414	HW-1	PC-BLDG 185: HW-1 (hotwell)	Round	6	20	1,000	70.0	10.0	293.0		0.0	73.6	Up	PS 1400
PT1415	TS-2	PC-BLDG 185: TS-2	Round	6	20	1,000	70.0	20.0	120.0	6.7			Up	PS 1400
PT1416	TS-45	PC-BLDG 185: TS-45	Round	3	25	1,000	120.0	20.0	180.0	6.7			Up	PS 1400
PT1419	T-70 JET	PC-BLDG 185: T-70 vacuum exhaust jet J-70	Round	2	1	1,000	70.0	30.0	105.0				Down	PS 1400
PT1501	BD-1	PC-BLDG ZI: BD-1	Round	12	4	1,000	280.0	150.0	300.0		0.0	0.1	Up	PS 1500
PT1502	J-41/TC-42	PC-BLDG ZI: Jet/ Hotwell J-41/TC-42	Round	2	12	1,000	90.0	60.0	150.0	3.0	1.0	100.0	Up	PS 1500
PT1503	INHIBITOR	PC-BLDG ZI: ADDITION FUNNEL	Round		25	1,000		20.0	180.0		0.1	2.0	Up	PS 1500
PT1504	K-42	PC-BLDG ZI: VENT K-42	Round	2	30	1,000	121.0	80.0	160.0		0.1	3.5	Up	PS 1500
PT1505	SB-43	PC-BLDG ZI: SCRUBBER VENT SB-43	Round	4	56	1,000		20.0	180.0		20.0	25.0	Up	PS 1500
PT1506	TD-42/TD-43	PC-BLDG ZI: VENT TD-42/TD-43	Round	2	30	1,000	157.0	60.0	180.0		0.0	1.0	Down	PS 1500
PT1507	TE-42	PC-BLDG ZI: TE-42	Round	1	38	1,000	86.0	60.0	120.0	0.1	0.0	1.0	Horizontal	PS 1500
PT1508	TE-43	PC-BLDG ZI: TE-43	Round	2	4	1,000	157.0	150.0	180.0	2.8	2.0	5.0	Up	PS 1500
PT1509	TE-43	PC-BLDG ZI: VENT TE-43	Round	2	30	1,000	157.0	150.0	180.0		0.0	1.0	Up	PS 1500
PT1510	TE-41	PC-BLDG ZI:VENT TE-41	Round	2	40	1,000	148.0	130.0	180.0	2.7	1.0	5.0	Horizontal	PS 1500
PT1511	TG-65	PC-BLDG ZI: TG-65	Round	10	45	1,000		60.0	100.0	700.0	600.0	750.0	Up	PS 1500
PT1512	TS-40	PC-BLDG ZI: TS-40	Round	2	4	1,000	148.0	140.0	160.0		0.1	6.0	Down	PS 1500

CHAMBERS WORKS (65473)
BOP240002

Date: 6/24/2025

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.		
PT1514	XH-41	PC-BLDG ZI:FAN XH-41	Round	3	60	1,000		20.0	100.0	570.0	500.0	600.0	Up	PS 1500
PT1515	XH-42	PC-BLDG ZI: FAN XH-42	Round	4	20	1,000		20.0	100.0	200.0	150.0	250.0	Up	PS 1500
PT1516	T/T	PC-BLDG ZI: T/T	Round	2	12	1,000		140.0	200.0		1.0	700.0	Up	PS 1500
PT1517	FE-1	PC-BLDG ZI: FE-1	Round	24	25	1,000		60.0	100.0		1.0	5.0	Up	PS 1500
PT1518	FN-52	PC-BLDG ZI: FN-52	Round	8	12	1,000	57.0	42.8	71.0	365.0	274.0	452.3	Horizontal	PS 1500
PT1519	J-1	PC-BLDG ZI: J-1	Round	3	60	1,000	90.0	70.0	110.0	345.0	260.0	430.0	Up	PS 1500
PT1520	TF-41	PC-BLDG ZI: TF-41	Round	2	40	1,000	148.0	111.0	185.0	2.7	2.1	3.4	Horizontal	PS 1500
PT1521	A-14	PC-BLDG ZI: A-14	Round	2	70	2,000	150.0	0.0	200.0	17.0	0.0	20.0	Up	PS 1501
PT1522	A-1	PC-BLDG ZI: A-14	Round	3	32	2,000	194.0	70.0	250.0	5.0	0.0	70.0	Down	PS 1501
PT1560	T-56	TANK T-56 VENT	Surface	192	5	1,000	122.0	32.0	175.0	3.0	2.0	4.0	Up	
PT1561	E-SUMP	E-SUMP VENT	Surface		0	1,000	122.0	32.0	175.0	3.0	2.0	4.0	Up	
PT1562	T-1	TANK T-1 VENT	Round	3	20	1,000	122.0	32.0	175.0	3.0	2.0	4.0	Horizontal	
PT1563	T-2	SLURRY MIX TANK T-2 VENT	Round	3	20	1,000	122.0	32.0	175.0	9.0	7.0	11.0	Horizontal	
PT1564	T-3	SLURRY MIX TANK T-3 VENT	Round	3	20	1,000	122.0	32.0	175.0	9.0	7.0	11.0	Horizontal	
PT1565	T-4	TANK T-4 VENT	Round	3	20	1,000	122.0	32.0	175.0	3.0	2.0	4.0	Horizontal	
PT1566	T-5	TANK T-5 VENT	Round	3	20	1,000	122.0	32.0	175.0	3.0	2.0	4.0	Horizontal	
PT1567	F-1	FILTER F-1 VENT	Round	3	20	1,000	122.0	32.0	175.0	72.0	60.0	90.0	Horizontal	
PT1568	AD-1/2	CARBON ADSORBER 1/2 VENT	Round	3	20	1,000	122.0	32.0	175.0	3.0	2.0	4.0	Horizontal	

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1601	C-172	PC BLDG 1205: C-172	Round	2	45	525		0.0	122.0		0.1	1.0	Down	PS 1600
PT1603	C-311	PC BLDG 1205: C-311	Round	2	45	525		0.0	100.0		0.1	1.0	Down	PS 1600
PT1604	C-312	PC BLDG 1205: C-312	Round	2	45	525		0.0	100.0		0.1	1.0	Down	PS 1600
PT1605	D-115	PC BLDG 1205: D-115	Round	12	47	525		0.0	176.0		0.1	1,500.0	Horizontal	PS 1600
PT1606	D-116	PC BLDG 1205: D-116	Round	12	47	525		0.0	176.0		0.1	1,500.0	Horizontal	PS 1600
PT1607	FN-31	PC BLDG 1205: FN-31	Round	30	35	525		20.0	100.0		0.1	8,545.0	Horizontal	PS 1600
PT1608	FN-32	PC BLDG 1205: FN-32	Round	30	35	525		20.0	100.0		0.1	8,545.0	Horizontal	PS 1600
PT1609	FN-33	PC BLDG 1205: FN-33	Round	30	35	525		20.0	100.0		0.1	8,545.0	Horizontal	PS 1600
PT1610	FN-2220	PC BLDG 1205: FN-2220	Round	22	48	525		20.0	100.0		0.1	14,400.0	Up	PS 1600
PT1611	FN-2221	PC BLDG 1205: FN-2221	Round	22	48	525		20.0	100.0		1.0	14,400.0	Up	PS 1600
PT1612	FN-2222	PC BLDG 1205: FN-2222	Round	22	48	525		20.0	100.0		1.0	14,400.0	Up	PS 1600
PT1613	FN-2230	PC BLDG 1205: FN-2230	Round	12	120	525		20.0	100.0		1.0	3,000.0	Up	PS 1600
PT1614	FN-2231	PC BLDG 1205: FN-2231	Round	12	47	525		20.0	100.0		1.0	300.0	Up	PS 1600
PT1615	HW-X	PC BLDG 1205: HW-X	Round	3	40	525		0.0	140.0		0.1	12.0	Up	PS 1600
PT1616	J-79	PC BLDG 1205: J-79	Round	3	40	525		0.0	140.0		0.1	16.0	Up	PS 1600
PT1618	J-112	PC BLDG 1205: J-112	Round	3	40	525		0.0	140.0		0.0	20.0	Up	PS 1600
PT1619	J-111	PC BLDG 1205: J-111	Round	3	40	525		0.0	140.0		0.0	8.0	Up	PS 1600
PT1620	K-20	PC BLDG 1205: K-20	Round	1	45	525		0.0	122.0		0.0	1.0	Up	PS 1600
PT1622	K-33	PC BLDG 1205: K-33	Round	2	42	525		20.0	100.0		0.1	20.0	Down	PS 1600

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1623	K-61	PC BLDG 1205: K-61	Round	2	45	525		20.0	100.0		0.1	1.8	Up	PS 1600
PT1624	K-69	PC BLDG 1205: J-69	Round	2	40	525		20.0	100.0		0.0	1.1	Down	PS 1600
PT1625	K-115	PC BLDG 1205: K-115	Round	1	40	525		0.0	104.0		0.0	1.0	Down	PS 1600
PT1627	K-132	PC BLDG 1205: K-132	Round	2	45	525		20.0	100.0		0.1	1.3	Down	PS 1600
PT1628	K-159	PC BLDG 1205: K-159	Round	2	42	525		20.0	100.0		0.1	9.0	Down	PS 1600
PT1629	K-169	PC BLDG 1205: K-169	Round	2	45	525		20.0	100.0		0.5	18.2	Down	PS 1600
PT1630	K-170	PC BLDG 1205: K-170	Round	2	45	525		0.0	167.0		1.0	4.0	Down	PS 1600
PT1631	K-172	PC BLDG 1205: K-172	Round	2	38	525		0.0	176.0		0.1	6.1	Down	PS 1600
PT1632	K-180	PC BLDG 1205: K-180	Round	1	38	525		20.0	100.0		0.1	10.0	Down	PS 1600
PT1633	K-193	PC BLDG 1205: K-193	Round	2	45	525		20.0	100.0		0.1	1.3	Up	PS 1600
PT1634	K-203	PC BLDG 1205: K-203	Round	1	45	525		20.0	100.0		0.0	1.3	Up	PS 1600
PT1635	K-204	PC BLDG 1205: K-204	Round	2	45	525		20.0	100.0		1.3	10.0	Up	PS 1600
PT1636	SP-102	PC BLDG 1205: SP-102	Round	2	40	525		0.0	194.0		0.0	20.0	Down	PS 1600
PT1637	SP-109	PC BLDG 1205: SP-109	Round	4	45	525		0.0	122.0		0.0	1.0	Up	PS 1600
PT1641	T-130	PC BLDG 1205: T-130	Round	2	40	525		0.0	158.0		0.1	35.0	Up	PS 1600
PT1642	T-270	PC BLDG 1205: T-270	Round	1	40	525		20.0	100.0		0.4	35.0	Down	PS 1600
PT1643	T-279	PC BLDG 1205: T-279	Round	3	48	525		20.0	100.0		0.0	0.5	Down	PS 1600
PT1644	TG-30	PC BLDG 1205: TG-30	Round	2	38	525		0.0	176.0		1.5	18.2	Horizontal	PS 1600
PT1645	TS-98	PC BLDG 1205: TS-98	Round	2	45	525		0.0	194.0		0.0	0.9	Down	PS 1600

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1647	1205	PC BLDG 1205: J317 Vent (also known as K33's vent)	Round	2	42	525	30.0	20.0	100.0	10.0	0.1	84.0	Down	PS 1600
PT1648	SB-166	PC BLDG 1205: vent scrubber SB-166	Round	4	47	525		32.0	100.0		1.0	200.0	Up	PS 1600
PT1649	SK-1	PC BLDG 1205: SK-1	Round	36	100	1,100	70.0	30.0	110.0	5,012.0	4,000.0	6,000.0	Up	PS 1600
PT1697	TF-70	PC-BLDG 1205: TF-70	Round	3	20	300	70.0	30.0	100.0	0.0	0.0	6.7	Up	PS 1601
PT1698	TF-71	PC-BLDG 1205: TF-71	Round	3	20	300	70.0	30.0	100.0	0.0	0.0	6.7	Up	PS 1601
PT1701	V-1 (J-26)	PC BLDG J-26: PROCESS, BATCH	Round	48	65	900		40.0	150.0		8,000.0	11,500.0	Up	PS 1700
PT1702	115 (J-26)	PC BLDG J-26: BAY 5 VOLATILITY BATH		17	29	900		40.0	300.0		1,850.0	1,850.0	Up	PS 1700
PT1703	5 (J-30)	PC BLDG J-26: MX-111 VENT		10	26	675							Up	PS 1700
PT1800	SMPF	PC: BLDG 1470: SMPF Stack SK-1	Round	30	65	500	50.0	20.0	110.0	5,000.0	0.0	9,000.0	Up	
PT2000	VENT N	PC BLDG J-26: BATCH - VENT FOR CL-157 AND J-113		2	12	500		40.0	100.0		0.1	1.0	Up	PS 2000
PT2001	BATH	PC BLDG J-26: BATH VENT FOR K-176 AND K-207	Round	8	4	900		40.0	240.0		0.0	0.0	Up	PS 2000
PT2004	SB-180	PC BLDG J-26: VENT FOR SCRUBBER SB-180	Round	12	90	900		40.0	200.0		0.1	11.0	Up	PS 2000
PT2017	1 (J-25)	PC BLDG J-26: VENT FOR TE-138		15	37	28		40.0	100.0		8.0	11.0	Up	PS 2000
PT2026	10 (J-25)	PC BLDG J-25: VENT FOR CL-157 AND J-113 IN HFIP AREA		2	12	500		20.0	100.0		0.1	1.0	Up	PS 2000

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT2030	V-2 (J-26)	PC BLDG J-26: VENT FOR CL-178		48	65	900		40.0	150.0		8,000.0	11,500.0	Up	PS 2000
PT2031	V-3 (J-26)	PC BLDG J-26: VENT V-3 FOR J-128, SB-107/CL-131		48	65	900		40.0	150.0		8,000.0	11,500.0	Up	PS 2000
PT3002	TE-27	SET: LIME SILO TS-27 FILTER RECEIVER TE-27	Round	6	50	2,000	60.0	20.0	100.0	1,490.0	0.0	1,490.0	Down	
PT3004	TE-28	SET: LIME SILO TS-28 FILTER RECEIVER TE-28	Round	6	50	2,000	60.0	20.0	100.0	1,490.0	0.0	1,490.0	Down	
PT3006	TE-29	SET: LIME SILO TS-29 FILTER RECEIVER TE-29	Round	6	50	2,000	60.0	20.0	100.0	1,490.0	0.0	1,490.0	Down	
PT3008	TE-30	SET: LIME SILO FILTER RECEIVER TE-30	Round	6	50	2,000	60.0	20.0	100.0	1,490.0	0.0	1,490.0	Up	
PT3018	TS-71A	SET: SLUDGE PROCESSING TANK TS-71A	Surface	324	24	2,000	60.0	20.0	100.0	107.0	0.0	214.0	Up	
PT3019	TS-71B	SET: SLUDGE HOLDING TANK TS-71B	Surface	324	24	2,000	60.0	20.0	100.0	107.0	0.0	214.0	Up	
PT3020	TS-71C	SET: SLUDGE HOLDING TANK TS-71C	Surface	324	24	2,000	60.0	20.0	100.0	107.0	0.0	214.0	Up	
PT3021	FP-75	SET: SLUDGE HANDLING SYSTEM FP-75	Surface	187	30	2,000	60.0	20.0	100.0	47.0	0.0	1,500.0	Up	
PT3022	FP-76	SET: SLUDGE HANDLING SYSTEM FP-76	Surface	187	30	2,000	60.0	20.0	100.0	47.0	0.0	1,500.0	Up	
PT3023	FP-277	SET: SLUDGE HANDLING SYSTEM FP-277	Surface	187	30	2,000	60.0	20.0	100.0	47.0	0.0	1,500.0	Up	
PT3024	SB-132	SET: SCRUBBER SB-132	Round	8	15	2,000	60.0	20.0	100.0	2,100.0	0.0	2,100.0		
PT3026	SB-26	SET: LIME SLAKING OPERATIONS SB-26	Round	12	50	2,800	60.0	20.0	100.0	5,000.0	0.0	5,000.0	Up	

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT3028	T-75	SET: POLYMER STORAGE TANK T-75	Round	12	38	2,800	60.0	20.0	100.0	280.0	0.0	280.0	Up	
PT3029	T-76	SET: POLYMER STORAGE TANK T-76	Round	12	38	2,800	60.0	20.0	100.0	280.0	0.0	280.0	Up	
PT3030	SB-126	SET: SCRUBBER STACK SB-126	Round	4	1	2,800	60.0	20.0	100.0	16.0	16.0	20.0	Down	
PT3101	PP	SET: PUMP PIT	Surface	120	0	2,000	60.0	20.0	100.0	1.0	0.0	5.0	Up	
PT3102	P606/607	SET: PRIMARY WASTEWATER SUMP P606/P607	Surface	120	0	2,000	60.0	20.0	100.0	0.5	0.0	1.0	Up	
PT3103	GT-49	SET: PRIMARY FLOW SPLITTER GT-49	Surface	192	30	2,000	60.0	20.0	100.0	0.5	0.0	1.0	Up	
PT3108	CF-61	SET: PRIMARY CLARIFIER CF-61	Surface	999	28	2,500	60.0	20.0	100.0	6.5	0.0	35.0	Up	
PT3109	CF-62	SET: PRIMARY CLARIFIER CF-62	Surface	999	28	2,500	60.0	20.0	100.0	6.5	0.0	35.0	Up	
PT3110	CF-63	SET: PRIMARY CLARIFIER CF-63	Surface	999	28	2,500	60.0	20.0	100.0	6.5	0.0	35.0	Up	
PT3111	CF-64	SET: PRIMARY CLARIFIER CF-64	Surface	999	28	2,500	60.0	20.0	100.0	6.5	0.0	35.0	Up	
PT3112	PT-231	SET: PRIMARY STILLING WELL PT-231	Surface	120	24	2,500	60.0	20.0	100.0	0.5	0.0	1.0	Up	
PT3115	AE-151	SET: SECONDARY AERATION AE-151		185	23	2,500	77.0	32.0	104.0	15,000.0	0.0	20,000.0	Up	
PT3116	AE-152	SET: SECONDARY AERATION AE-152		185	23	2,500	77.0	32.0	104.0	19,000.0	0.0	20,000.0	Up	
PT3117	AE-153	SET: SECONDARY AERATION AE-153		185	23	2,500	77.0	32.0	104.0	21,000.0	0.0	20,000.0	Up	

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT3118	GT-161	SET: SECONDARY CLARIFIER FLOW SPLITTER GT-161		19	19	2,500	77.0	59.0	104.0	0.5	0.1	1.0		
PT3119	CF-161	SET: SECONDARY CLARIFIER CF-161		172	16	2,500	77.0	59.0	104.0	0.5	0.1	1.0		
PT3120	CF-162	SET: SECONDARY CLARIFIER CF-162		172	16	2,500	77.0	59.0	104.0	0.5	0.1	1.0		
PT3121	P-185 A/B	SET: WAS SCREW PUMPS P-185 A/B				2,500								
PT3123	NE-41	SET: NEUTRALIZER NE-41	Surface	40	27	2,000	60.0	20.0	100.0	1,500.0	0.0	1,500.0	Up	
PT3124	NE-42	SET: NEUTRALIZER NE-42	Surface	40	27	2,000	60.0	20.0	100.0	1,500.0	0.0	1,500.0	Up	
PT3125	NE-43	SET: NEUTRALIZER NE-43	Surface	40	27	2,000	60.0	20.0	100.0	1,500.0	0.0	1,500.0	Up	
PT3127	CF-163	SET: SECONDARY CLARIFIER CF-163		206	20	2,000	77.0	59.0	104.0	0.5	0.1	1.0	Up	
PT3128	AE-251	SET: STACK AE-251		206	20	2,000	77.0	59.0	104.0	15,000.0	0.0	30,000.0	Up	
PT3129	CF-261	SET: TERT CLARIFIER CF-261		206	20	2,000	77.0	59.0	104.0	0.5	0.1	1.0	Up	
PT3130	CF-262	SET: TERT CLARIFIER CF-262		206	20	2,000	77.0	59.0	104.0	0.5	0.1	1.0	Up	
PT3131	TS-500	SET: Surge Tank TS-500	Round	999	40	1,680	63.0	20.0	100.0	227.0	0.0	300.0	Up	
PT3132	TS-501	SET: Surge Tank TS-501	Round	999	40	1,910	63.0	20.0	100.0	227.0	0.0	300.0	Up	
PT3133	GT-312 #1	SET: Flow Splitter GT-312, Vent 1	Round	12			60.0	35.0	100.0	0.5	0.0	1.0	Up	
PT3134	GT-312 #2	SET: Flow Splitter GT-312, Vent 2	Round	12			60.0	35.0	100.0	0.5	0.0	1.0	Up	

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT3135	DW-1	SET: Dewatering Pad	Rectangle				60.0	20.0	100.0	0.5	0.0	1.0	Up	
PT3136	TS-502	SET: Surge Tank TS-502	Round	999	40	2,070	63.0	20.0	100.0	227.0	0.0	300.0	Up	
PT3204	RUPTURE VENT	SET: RUPTURE DISC VENT	Round	2	22	1,600	78.0	20.0	110.0	5.0	0.0	10.0	Up	
PT3205	GAS TANK PT	Gasoline Tank E3207 emission point	Round	2	13		60.0	0.0	100.0	1.2	0.0	1.2	Up	
PT3230	Head Tank	Diffuser Head Tank	Round	151	28	400	70.0	32.0	100.0				Up	
PT3231	1488-VI	Diffuser Head Tank Discharge Line Vent	Round	8	28	400	70.0	32.0	100.0				Down	
PT3250	Leachate Tk	Open-top Landfill Leachate Tank	Round	180	27	2,000							Up	
PT3506	Gen-1	Generator #1	Round										Up	
PT3507	Gen-2	Generator #2	Round										Up	
PT3508	Gen-3	Generator #3	Round										Up	
PT3509	Pump #1	Pump #1	Round										Up	
PT3510	Pump #2	Pump #2	Round										Up	
PT3511	Pump #3	Pump #3	Round										Up	
PT5501	TC-343 HOTWE	ELASTOMERS-BLDG 745: HOTWELL TC-343	Round	2	81	2,400	113.0	80.0	146.0	70.0	50.0	90.0	Up	
PT5502	SK-19B	ELASTOMERS-BLDG 745: STACK: SK-19B	Round	3	60	2,400	60.0	20.0	100.0	1.0	0.5	1.5	Up	
PT5503	BL-166	ELASTOMERS-BLDG 745: PELLET CONVEYING SYSTEM: BL-166	Round	3	33	2,400	152.0	127.0	250.0	225.0	160.0	300.0	Horizontal	

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT5505	TF-271	ELASTOMERS-BLDG 745: FEED TANK: TF-271	Round	3	75	2,400	68.0	20.0	100.0	0.3	0.2	0.3	Up	
PT5506	SK-1	ELASTOMERS-BLDG 745: STACK: SK-1 - TANKER UNLOADING	Round	3	30	2,575	68.0	20.0	100.0	1.0	0.5	2.0	Up	
PT5507	FN-292	ELASTOMERS-BLDG 745: FN-292	Round	21	20	2,400	60.0	20.0	100.0	11,800.0	9,000.0	14,000.0	Up	
PT5514	SK-274	ELASTOMERS-BLDG 745: SK-274	Round	6	135	2,400	60.0	20.0	100.0	0.3	0.0	1.0	Up	
PT5515	SK-3	ELASTOMERS-BLDG 745: STACK SK-3	Round	30	135	2,400	60.0	20.0	100.0	16,000.0	0.0	17,000.0	Up	
PT5516	SK-402	ELASTOMERS-BLDG 745: SK-402	Round	22	50	2,400	125.0	70.0	180.0	8,250.0	8,000.0	8,500.0	Horizontal	
PT5550		TFE/CO2 SCRUBBER	Round											
PT5551		CAUSTIC DISENGAGEMENT DRUM	Round											
PT9001	Temp Pump #1	Temporary Pump #1	Round										Up	
PT10000	Site	GR-14 Stock	Round	3	7		1,007.5	975.0	1,040.0	444.0	429.0	459.0	Up	
PT10001	Site	GR-15 Stock	Round	3	7		1,007.5	975.0	1,040.0	444.0	429.0	459.0	Up	
PT12000	Ped GR 16	Pedersen Building Emergency Generator	Round											
PT13001	CP-006	Portable air compressor CP-006	Round											
PT13002	CP-007	Portable air compressor CP-007	Round											
PT13003	CP-008	Portable air compressor CP-008	Round											

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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.		
PT14001	CP-J25	Portble Air Compressor (J25 Bldg)	Round											

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New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

BP1000 BLDG A PC - Building A - Product Manufacturing

OS1001 BLDG A PC - Building A - Product Manufacturing BPOS Type: Normal - Steady State

Batch Process Operating Scenario Run Time (hours) *Min. Calc. Time: 0.0* *Max. Calc. Time: 0.0* *Min. User Time:* *Max. User Time:*

Step NJID	Facility's Designation	Step Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Step Run Time Hours Min.	Step Run Time Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
ST1	BLDG A	PC - Building A - Product Manufacturing	Normal - Steady State	ES1000	CS1000 (P)	PS1000								

BP1300 BLDG 115 PC - BUILDING 115 - Product Manufacturing

OS1300 BLDG 115 PC - BUILDING 115 - Product Manufacturing BPOS Type: Normal - Steady State

Batch Process Operating Scenario Run Time (hours) *Min. Calc. Time: 0.0* *Max. Calc. Time: 0.0* *Min. User Time:* *Max. User Time:*

Step NJID	Facility's Designation	Step Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Step Run Time Hours Min.	Step Run Time Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
ST1	BLDG 115	PC - BUILDING 115 - Product Manufacturing	Normal - Steady State	ES1300	CS1300 (P)	PS1300				A				

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Emission Unit/Batch Process Inventory

BP1400 BLDG 185 PC - BUILDING 185 - PRODUCT MANUFACTURING

OS1400 BLDG 185 PC - BUILDING 185 - PRODUCT MANUFACTURING BPOS Type: Normal - Steady State

Batch Process Operating Scenario Run Time (hours) *Min. Calc. Time: 0.0* *Max. Calc. Time: 0.0* *Min. User Time:* *Max. User Time:*

Step NJID	Facility's Designation	Step Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Step Run Time Hours Min.	Step Run Time Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
ST1	BUILDING 185	PC - BUILDING 185 - PRODUCT MANUFACTURING	Normal - Steady State	ES1400	CS1400 (P)	PS1400								

BP1500 ZI BUILDING BUILDINGS 120, 234 AND 1156 (CAPSTONE INTERMEDIATES)

OS1500 ZI BUILDING PC - ZI BUILDING PRODUCT MANUFACTURING BPOS Type: Normal - Steady State

Batch Process Operating Scenario Run Time (hours) *Min. Calc. Time: 0.0* *Max. Calc. Time: 0.0* *Min. User Time:* *Max. User Time:*

Step NJID	Facility's Designation	Step Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Step Run Time Hours Min.	Step Run Time Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
ST1	BLDG ZI-ALL	PC - BUILDING ZI - PRODUCT MANUFACTURING	Normal - Steady State	ES1500	CS1500 (P)	PS1500								
ST2	BLDG ZI-AUTO	PC - BUILDING ZI - AUTOCLAVES	Normal - Steady State	ES1501		PS1501				B				

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Emission Unit/Batch Process Inventory

BP1500 ZI BUILDING BUILDINGS 120, 234 AND 1156 (CAPSTONE INTERMEDIATES)

OS1501 ZI BUILDING TANK TRAILER SPOTS BPOS Type: Normal - Steady State

Batch Process Operating Scenario Run Time (hours) *Min. Calc. Time: 0.0* *Max. Calc. Time: 2.0* *Min. User Time:* *Max. User Time:*

Step NJID	Facility's Designation	Step Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Step Run Time Hours Min.	Step Run Time Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
ST1	Tank Trailer	Tank Trailer Spots	Normal - Steady State	E1541	CD1502 (P) CD1504 (P)				2.0					

BP1600 BLDG 1205 PC - BUILDING 1205 - PRODUCT MANUFACTURING

OS1698 BLDG 1205 PC- BUILDING 1205 - PRODUCT MANUFACTURING BPOS Type: Normal - Steady State

Batch Process Operating Scenario Run Time (hours) *Min. Calc. Time: 0.0* *Max. Calc. Time: 0.0* *Min. User Time:* *Max. User Time:*

Step NJID	Facility's Designation	Step Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Step Run Time Hours Min.	Step Run Time Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
ST1	BLDG 1205	PC BLDG 1205: PRODUCT MANUFACTURING	Normal - Steady State	ES1600	CS1600 (P)	PS1600								

OS1699 STORAGE TANK PC- BUILDING 1205 - STORAGE TANKS BPOS Type: Normal - Steady State

Batch Process Operating Scenario Run Time (hours) *Min. Calc. Time: 0.0* *Max. Calc. Time: 0.0* *Min. User Time:* *Max. User Time:*

Step NJID	Facility's Designation	Step Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Step Run Time Hours Min.	Step Run Time Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
ST1	BUILDING 120	PC - BUILDING 1205 - STORAGE TANKS	Normal - Steady State	ES1601		PS1601								

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Emission Unit/Batch Process Inventory

BP1700 J-26/27 BLDG PC - J-26 / J-27 DUAL PERMIT

OS1 J-26/27 BLDG PC - J-26 / J-27 DUAL PERMIT BPOS Type: Normal - Steady State

Batch Process Operating Scenario Run Time (hours) *Min. Calc. Time: 0.0* *Max. Calc. Time: 0.0* *Min. User Time:* *Max. User Time:*

Step NJID	Facility's Designation	Step Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Step Run Time Hours Min.	Step Run Time Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
ST1	1	PC - J-26 / J-27 BLDG - KRYTOX PRODUCT MANUFACTURING	Normal - Steady State	ES1700	CS1700 (P)	PS1700								
ST2	2	PC - BLDGS J-25 AND J-26 - PRODUCT MANUFACTURING	Normal - Steady State	ES2000	CS2000 (P)	PS2000								

BP1800 SMPF BUILDING 1470 - SMPF

OS1 SMPF BUILDING 1470 - SMPF BPOS Type: Normal - Steady State

Batch Process Operating Scenario Run Time (hours) *Min. Calc. Time: 0.0* *Max. Calc. Time: 0.0* *Min. User Time:* *Max. User Time:*

Step NJID	Facility's Designation	Step Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Step Run Time Hours Min.	Step Run Time Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
ST1	SMPF PROCESS	BLDG. 1470: SMPF PROCESS EQUIPPED WITH O2 ANALYSER.	Normal - Steady State	ES1800	CD1800 (P)	PT1800	3-01-800-01	0.0		A	0.0		30.0	110.0

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Emission Unit/Batch Process Inventory

U 901 BUILDING 120 DRY FILMS PROCESS EQUIPMENT

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	AB-94A, B	AB-94 Absorber- Vertrel (TLF- 9510, 9511, 9512) and 141b Products	Normal - Steady State	E901		PT901	3-01-999-98	0.0	8,760.0	A	0.0	5.0	-50.0	10.0
OS2	P-1469A, B	P-1469 Catch Tank/Vacuum Pump- Vertrel (TLF- 9510, 9511, 9512) and 141b Products	Normal - Steady State	E904		PT902	3-01-999-98	0.0	100.0	A	0.0	5.0	10.0	100.0
OS3	TE-631A, B	TE-631 Storage Tank - Vertrel and 141b Products	Normal - Steady State	E906		PT903	3-01-999-98	0.0	100.0	A	0.0	20.0	20.0	100.0

U 1500 ZI CONT PROC ZI CONTINUOUS PROCESS - BUILDING 1486

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1560	T-56	ZI CONTINUOUS PROCESS: T-56 TANK	Normal - Steady State	E1560		PT1560		0.0	8,760.0		2.0	4.0	32.0	175.0
OS1561	E-SUMP	ZI CONTINUOUS PROCESS: E-SUMP	Normal - Steady State	E1561		PT1561		0.0	8,760.0		2.0	4.0	32.0	175.0
OS1562	T-1	ZI CONTINUOUS PROCESS: TANK T-1	Normal - Steady State	E1562		PT1562		0.0	8,760.0		2.0	4.0	32.0	175.0
OS1563	T-2	ZI CONTINUOUS PROCESS: SLURRY MIX TANK T-2	Normal - Steady State	E1563	CD1560 (P)	PT1563		0.0	8,760.0		7.0	11.0	32.0	175.0

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U 1500 ZI CONT PROC ZI CONTINUOUS PROCESS - BUILDING 1486

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1564	T-3	ZI CONTINUOUS PROCESS: SLURRY MIX TANK T-3	Normal - Steady State	E1564	CD1561 (P)	PT1564		0.0	8,760.0		7.0	11.0	32.0	175.0
OS1565	T-4	ZI CONTINUOUS PROCESS: TANK T-4	Normal - Steady State	E1565		PT1565		0.0	8,760.0		2.0	4.0	32.0	175.0
OS1566	T-5	ZI CONTINUOUS PROCESS: TANK T-5	Normal - Steady State	E1566		PT1566		0.0	8,760.0		2.0	4.0	32.0	175.0
OS1567	F-1	ZI CONTINUOUS PROCESS: FILTER F-1	Normal - Steady State	E1567		PT1567		0.0	8,760.0		60.0	90.0	32.0	175.0
OS1568	AD-1/2	ZI CONTINUOUS PROCESS: CARBON ADSORBERS 1/2	Normal - Steady State	E1568		PT1568		0.0	8,760.0		2.0	4.0	32.0	175.0

U 1601 1205 Strg Tk PC-Bldg 1205-BP1600 Two Storage Tanks (E1697 and E1698)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	TF-70	PC - Building - Storage Tank TF-70	Normal - Steady State	E1697		PT1697		0.0	8,670.0		0.0	6.7	30.0	100.0
OS2	TF-71	PC - Building - Storage Tank TF-71	Normal - Steady State	E1698		PT1698		0.0	8,670.0		0.0	6.7	30.0	100.0

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U 3000 SET SECURE ENVIRONMENTAL TREATMENT

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS3002	TS27 TO TE27	SET: LIME UNLOADING OPERATIONS, TS-27 VENTING TO TE-27	Normal - Steady State	E3001	CD3002 (P)	PT3002		0.0	8,760.0		0.0	1,490.0	20.0	80.0
OS3004	TS28 TO TE28	SET: LIME UNLOADING OPERATIONS, TS-28 VENTING TO TE-28	Normal - Steady State	E3002	CD3004 (P)	PT3004		0.0	8,760.0		0.0	1,490.0	20.0	80.0
OS3006	TS29 TO TE29	SET: LIME UNLOADING OPERATIONS, TS-29 VENTING TO TE-29	Normal - Steady State	E3003	CD3006 (P)	PT3006		0.0	8,760.0		0.0	1,490.0	20.0	80.0
OS3008	TS30 TO TE30	SET: LIME UNLOADING OPERATIONS, TS-30 VENTING TO TE-30	Normal - Steady State	E3004	CD3008 (P)	PT3008		0.0	8,760.0		0.0	1,490.0	20.0	80.0
OS3019	TS-71A	SET: SLUDGE SLURRY HOLDING TANK TS-71A	Normal - Steady State	E3015		PT3018		0.0	8,760.0		0.0	107.0	20.0	100.0
OS3020	TS-71B	SET: SLUDGE SLURRY HOLDING TANK TS-71B	Normal - Steady State	E3016		PT3019		0.0	8,760.0		0.0	107.0	20.0	100.0
OS3021	TS-71C	SET: SLUDGE SLURRY HODLING TANK TS-71C	Normal - Steady State	E3017		PT3020		0.0	8,760.0		0.0	107.0	20.0	100.0
OS3022	FP-75	SET: PRESS FOR PRIMARY SLUDGE FP-75	Normal - Steady State	E3018		PT3021		0.0	8,760.0		0.0	47.0	20.0	95.0
OS3023	FP-76	SET: PRESS FOR PRIMARY SLUDGE FP-76	Normal - Steady State	E3019		PT3022		0.0	8,760.0		0.0	47.0	20.0	95.0
OS3024	FP-277	SET: PRESS FOR PRIMARY SLUDGE FP-277	Normal - Steady State	E3020		PT3023		0.0	8,760.0		0.0	47.0	20.0	95.0
OS3025	CP-131	SET: CARBON UNLOADING SYSTEM CP-131	Normal - Steady State	E3021	CD3013 (P) CD3130 (S)	PT3024		0.0	8,760.0		0.0	1,530.0	20.0	140.0

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U 3000 SET SECURE ENVIRONMENTAL TREATMENT

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS3027	RE-26	SET: RE-26 MIXING OF LIME AND WATER	Normal - Steady State	E3023	CD3015 (P)	PT3026		0.0	8,760.0		0.0		20.0	100.0
OS3029	T-75	SET: POLYMER STORAGE TANK T-75	Normal - Steady State	E3025		PT3028		0.0	8,760.0		0.0	256.0	20.0	95.0
OS3030	T-76	SET: POLYMER STORAGE TANK T-76	Normal - Steady State	E3026		PT3029		0.0	8,760.0		0.0	280.0	20.0	95.0
OS3031	TS-126B	SET: HCL/FERRIC CHLORIDE STORAGE TS-126B	Normal - Steady State	E3027	CD3031 (P)	PT3030		0.0	8,760.0		0.0	4.5	20.0	70.0
OS3032	TS-126A	SET: H3PO4 STORAGE TS-126A	Normal - Steady State	E3028	CD3031 (P)	PT3030		0.0	8,760.0		0.0	4.5	20.0	70.0
OS3101	PUMP PIT	SET: WWTP, PUMP PIT	Normal - Steady State	E3101		PT3101		0.0	8,760.0		0.0	5.0	20.0	100.0
OS3102	PRIMARY WWS	SET: WWTP, PRIMARY WW SUMP	Normal - Steady State	E3102		PT3102		0.0	8,760.0		0.0	1.0	20.0	100.0
OS3103	WWTP GT-49	SET: WWTP - PRIMARY FLOW SPLITTER GT-49	Normal - Steady State	E3103		PT3103		0.0	8,760.0		0.0	1.0	20.0	100.0
OS3108	WWTP CF-61	SET: WWTP - PRIMARY CLARIFIER CF-61	Normal - Steady State	E3108		PT3108		0.0	8,760.0		0.0	35.0	20.0	100.0
OS3109	WWTP CF-62	SET: WWTP - PRIMARY CLARIFIER CF-62	Normal - Steady State	E3109		PT3109		0.0	8,760.0		0.0	35.0	20.0	100.0
OS3110	WWTP CF-63	SET: WWTP - PRIMARY CLARIFIER CF-63	Normal - Steady State	E3110		PT3110		0.0	8,760.0		0.0	35.0	20.0	100.0
OS3111	WWTP CF-64	SET: WWTP - PRIMARY CLARIFIER CF-64	Normal - Steady State	E3111		PT3111		0.0	8,760.0		0.0	35.0	20.0	100.0
OS3112	WWTP PT-231	SET: WWTP - PRIMARY STILLING WELL PT-231	Normal - Steady State	E3112		PT3112		0.0	8,760.0		0.0	1.0	20.0	100.0
OS3115	WWTP AE-151	SET: WWTP - SECONDARY AERATION AE-151	Normal - Steady State	E3115		PT3115		0.0	8,760.0		0.0	20,000.0	32.0	104.0

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U 3000 SET SECURE ENVIRONMENTAL TREATMENT

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS3116	WWTP AE-152	SET: WWTP - SECONDARY AERATION AE-152	Normal - Steady State	E3116		PT3116		0.0	8,760.0		0.0	20,000.0	32.0	104.0
OS3117	WWTP AE-153	SET: WWTP - SECONDARY AERATION AE-153	Normal - Steady State	E3117		PT3117		0.0	8,760.0		0.0	20,000.0	32.0	104.0
OS3118	GT-161	SET: WWTP - SECONDARY CLARIFIER FLOW SPLITTER GT-161	Normal - Steady State	E3118		PT3118		0.0	8,760.0		0.0	1.0	59.0	104.0
OS3119	CF-161	SET: WWTP - SECONDARY CLARIFIER CF-161	Normal - Steady State	E3119		PT3119		0.0	8,760.0		0.0	1.0	59.0	104.0
OS3120	CF-162	SET: WWTP - SECONDARY CLARIFIER CF-162	Normal - Steady State	E3120		PT3120		0.0	8,760.0		0.0	1.0	59.0	104.0
OS3121	P-185	SET: WWTP A/B RAS SCREW PUMPS P-185	Normal - Steady State	E3121		PT3121		0.0	8,760.0		0.0			
OS3122	TS-500	SET: SURGE TANK TS-500	Normal - Steady State	E3122		PT3131		0.0	8,760.0		0.0	10,000.0	20.0	110.0
OS3123	TS-501	SET: SURGE TANK TS-501	Normal - Steady State	E3123		PT3132		0.0	8,760.0		0.0	10,000.0	20.0	110.0
OS3124	TS-502	SET: SURGE TANK TS-502	Normal - Steady State	E3124		PT3136		0.0	8,760.0		0.0	10,000.0	20.0	110.0
OS3125	NE-41	SET: WW NEUTRALIZATION NE-41	Normal - Steady State	E3125		PT3123		0.0	8,760.0		0.0	1,920.0	20.0	80.0
OS3126	NE-42	SET: WW NEUTRALIZATION NE-42	Normal - Steady State	E3126		PT3124		0.0	8,760.0		0.0	1,920.0	20.0	80.0

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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 Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS3127	NE-43	SET: WW NEUTRALIZATION NE-43	Normal - Steady State	E3127		PT3125		0.0	8,760.0		0.0	1,920.0	20.0	80.0
OS3129	CF-163	SET: WW TREATMENT SECONDARY CLARIFIER CF-163	Normal - Steady State	E3129		PT3127		0.0	8,760.0		0.0	1.0	59.0	104.0
OS3130	AE-251	SET: WW TREATMENT TERTIARY AERATION TANK AE-251	Normal - Steady State	E3130		PT3128		0.0	8,760.0		0.0	30,000.0	59.0	104.0
OS3131	CF-261	SET: WW TREATMENT TERTIARY CLARIFIER CF-261	Normal - Steady State	E3131		PT3129		0.0	8,760.0		0.0	1.0	59.0	104.0
OS3132	CF-262	SET: WW TREATMENT TERTIARY CLARIFIER CF-262	Normal - Steady State	E3132		PT3130		0.0	8,760.0		0.0	1.0	59.0	104.0
OS3133	SET: GT-312	SET: FLOW SPLITTER GT-312	Normal - Steady State	E3133		PT3133 PT3134		0.0	8,760.0		0.0	1.0	35.0	100.0
OS3134	SET: DW-1	SET: DEWATERING PAD DW-1	Normal - Steady State	E3134		PT3135		0.0	8,760.0				40.0	100.0
OS3230	T-3	Diffuser Head Tank With Two Vents: Head Tank Vent PT3230 + Head Tank Discharge Line Vent PT3231	Normal - Steady State	E3230		PT3230 PT3231	A26-30-010-000	0.0	8,760.0				32.0	100.0
OS3250	LeachateTank	LANDFILL LEACHATE COLLECTION TANK (TC-504)	Normal - Steady State	E3250		PT3250		0.0	8,760.0				40.0	90.0

CHAMBERS WORKS (65473)
BOP240002

Date: 6/24/2025

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 3501 3 Temp Gens Three Temporary Generators

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Gen -1	Generator #1	Normal - Steady State	E3506		PT3506			432.0					
OS2	Gen -2	Generator #2	Normal - Steady State	E3507		PT3507			432.0					
OS3	Gen -3	Generator #3	Normal - Steady State	E3508		PT3508			432.0					

U 3502 3 Temp Pumps Three Temporary Pumps

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	P -1	Temp. Pump #1	Normal - Steady State	E3509		PT3509	2-02-001-02	0.0	1,056.0					
OS2	P -2	Temp. Pump #2	Normal - Steady State	E3510		PT3510	2-02-001-02	0.0	1,056.0					
OS3	P-3	Temp. Pump #3	Normal - Steady State	E3511		PT3511	2-02-001-02	0.0	1,056.0					

CHAMBERS WORKS (65473)
BOP240002

Date: 6/24/2025

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 3700 GDF Gasoline Dispensing facility

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS3701	GDF Tank	Gasoline Dispensing Facility	Normal - Steady State	E3207		PT3205		0.0	8,760.0					

U 5500 Elastomers Fluoroelastomers

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS5501	SP-326	ELASTOMERS-BLDG 745: SEPARATOR: SP-326	Normal - Steady State	E5501		PT5501								
OS5502	D-344	ELASTOMERS-BLDG 745: DRYER D-344	Normal - Steady State	E5502		PT5501								
OS5503	D-345	ELASTOMERS-BLDG 745: DRYER D-345	Normal - Steady State	E5503		PT5501								
OS5504	CP-301	ELASTOMERS-BLDG 745: TFE/HCL AZEOTROPE UNLOADING COMPRESSOR VENT CP-301 WITH DISTANCE PIECE	Normal - Steady State	E5504	CD5501 (P)	PT5502								

CHAMBERS WORKS (65473)
BOP240002

Date: 6/24/2025

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 5500 Elastomers Fluoroelastomers

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS5505	TFE/HCL L/UN	ELASTOMERS-BLDG 745: TFE/HCL AZEOTROPE TANK TRAILER UNLOADING LINES AND TFE LOADING LINES	Maintenance	E5505	CD5501 (P)	PT5502								
OS5506	TS-305/C-306	ELASTOMERS-BLDG 745: DEINVENTORY OF TFE/HCL AZEOTROPE TANK	Maintenance	E5506	CD5501 (P)	PT5502								
OS5507	BL-166	ELASTOMERS-BLDG 745: PELLET CONVEYING SYSTEM BL-166	Normal - Steady State	E5507	CD5502 (P) CD5503 (S)	PT5503								
OS5508	PACK	ELASTOMERS-BLDG 745: Packaging	Normal - Steady State	E5511	CD5505 (P)	PT5507								
OS5509	TF-271	ELASTOMERS-BLDG 745: FEED TANK TF-271	Normal - Steady State	E5509		PT5505								
OS5510	VF2 UNLOAD	ELASTOMERS-BLDG 745: VF2 TANK TRAILER UNLOADING LINES	Normal - Steady State	E5510		PT5506								
OS5512	D-273	ELASTOMERS-BLDG 745: DRYER D-273	Normal - Steady State	E5512	CD5505 (P)	PT5507								
OS5513	TG-275	ELASTOMERS-BLDG 745: TG-275 BARIUM SULFATE ADDITION	Normal - Steady State	E5513	CD5505 (P)	PT5507								
OS5523	SP-277	ELASTOMERS-BLDG 745:: SEPARATOR SP-277	Normal - Steady State	E5522	CD5506 (P)	PT5514								
OS5524	TC-305	ELASTOMERS-BLDG 745: FILTRATE COLLECTION TANK	Normal - Steady State	E5523		PT5515								

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New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 5500 Elastomers Fluoroelastomers

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS5525	MONOMER RR	ELASTOMERS-BLDG 745: MONOMER RECOVERY ROOM	Normal - Steady State	E5524		PT5515								
OS5526	T-281/T-283	ELASTOMERS-BLDG 745:TANK SYSTEM: T-281/T-283	Normal - Steady State	E5525		PT5515								
OS5527	COMPRESS AR	ELASTOMERS-BLDG 745: COMPRESSOR AUTOCLAVE ROOM	Normal - Steady State	E5526		PT5515								
OS5528	D-402	ELASTOMERS-BLDG 745: CRUMB DRYER: D-402	Normal - Steady State	E5527	CD5507 (P)	PT5516								
OS5529	CY-408	ELASTOMERS-BLDG 745: MECHANICAL CONVEYER	Normal - Steady State	E5528	CD5507 (P)	PT5516								
OS5550	TFE/CO2 Sep	TFE/CO2 SEPARATOR	Maintenance	E5550		PT5550	3-01-999-98	0.0	8,760.0				0.0	150.0
OS5551	NAOH disenga	CAUSTIC/TFE DISENGAGEMENT	Normal - Steady State	E5551		PT5551	3-01-999-98	0.0	8,760.0					

CHAMBERS WORKS (65473)
BOP240002

Date: 6/24/2025

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 9000 Temp Pump #1 One Temporary Pump (Clemente's Pond Pump)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS9001	Temp Pump #1	Clemente's Pond Pump	Normal - Steady State	E9001		PT9001			840.0					

U 10000 Generators Non-Emergency Generators

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS10001	GR 14	Sitewide Non-Emergency 60 kW Generator	Normal - Steady State	E10001		PT10000	3-01-800-01	0.0	2,000.0		429.0	459.0	975.0	1,040.0
OS10002	Gr 15	Sitewide Non-Emergency 60 kW Generator	Normal - Steady State	E10002		PT10001	3-01-800-01	0.0	2,000.0		429.0	459.0	975.0	1,040.0

CHAMBERS WORKS (65473)
BOP240002

Date: 6/24/2025

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 11000 Fire Pumps 323 bhp Tier 3 Fire Pumps

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Fire Pump	Emergency Fire Pump P-1F	Normal - Steady State	E11001				0.0	100.0					
OS2	Fire Pump	Emergency Fire Pump P-2F	Normal - Steady State	E11002				0.0	100.0					
OS3	Fire Pump	Emergency Fire Pump P-3F	Normal - Steady State	E11003				0.0	100.0					

U 12000 Ped GR 16 Pedersen Building Emergency Generator

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Ped GR 16	Pedersen Building Emergency Generator	Normal - Steady State	E12000		PT12000								

CHAMBERS WORKS (65473)
BOP240002

Date: 6/24/2025

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 13000 Compressors Portable Air Compressors for Site-Wide Use

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS13001	CP-006	Portable Air Compressor CP-006	Normal - Steady State	E13001		PT13001		0.0	8,760.0					
OS13002	CP-007	Portable Air Compressor CP-007	Normal - Steady State	E13002		PT13002		0.0	8,760.0					
OS13003	CP-008	Portable Air Compressor CP-008	Normal - Steady State	E13003		PT13003		0.0	8,760.0					

U 14001 CP-J25 Portable Air Compressor (J25 Bldg)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	CP-J25	Portable Air Compressor (J25 Bldg)	Normal - Steady State	E14001		PT14001		0.0	1,440.0					

Date: 6/24/2025

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR1 MACT

Members:

Type	ID	OS	Step
BP	BP1000	OS0 Summary	
BP	BP1300	OS0 Summary	
BP	BP1400	OS0 Summary	
BP	BP1500	OS0 Summary	
BP	BP1600	OS0 Summary	
BP	BP1700	OS0 Summary	
BP	BP1800	OS0 Summary	

Formal Reason(s) for Group/Cap:

☑ Other

Other (explain):

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances:

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR1000 PC Area

Members:

Type	ID	OS	Step
BP	BP1000	OS0 Summary	
BP	BP1300	OS0 Summary	
BP	BP1400	OS0 Summary	
BP	BP1500	OS0 Summary	
BP	BP1600	OS0 Summary	
BP	BP1700	OS0 Summary	
BP	BP1800	OS0 Summary	
U	U 901	OS0 Summary	

Formal Reason(s) for Group/Cap:

☑ Other

Other (explain):

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances:

65473 CHAMBERS WORKS Date: 6/24/2025

BOP240002

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **BP1000 BLDG A**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Acetaldehyde			D	D	tons/yr	No
CO					tons/yr	No
HAPs (Total)			D	D	tons/yr	No
NOx (Total)					tons/yr	No
PM-10 (Total)			0.20000000	0.20000000	tons/yr	No
PM-10 (Total)					lb/hr	
Pb					tons/yr	No
SO2					tons/yr	No
TSP			0.20000000	0.20000000	tons/yr	No
TSP					lb/hr	
VOC (Total)					lb/hr	
VOC (Total)			3.70000000	3.70000000	tons/yr	No
Vinyl acetate			D	D	tons/yr	No

Subject Item: **BP1000 BLDG A**

Operating Scenario: **OS1001 BLDG A**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/batch	No
HAPs (Total)					lb/batch	No
NOx (Total)					lb/batch	No
PM-10 (Total)					lb/batch	No
Pb					lb/batch	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **BP1000 BLDG A**

Operating Scenario: **OS1001 BLDG A**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
SO2					lb/batch	No
TSP					lb/batch	No
VOC (Total)					lb/batch	No

Subject Item: **BP1300 BLDG 115**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					tons/yr	No
Ethylene Oxide					lb/hr	
HAPs (Total)					lb/hr	
HAPs (Total)					tons/yr	No
NOx (Total)					tons/yr	No
PM-10 (Total)					lb/hr	
PM-10 (Total)			0.16000000	0.16000000	tons/yr	No
Pb					tons/yr	No
SO2					tons/yr	No
TSP			0.16000000	0.16000000	tons/yr	No
TSP					lb/hr	
VOC (Total)					lb/hr	
VOC (Total)			4.90000000	4.90000000	tons/yr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **BP1300 BLDG 115**

Operating Scenario: **OS1300 BLDG 115**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/batch	No
HAPs (Total)					lb/batch	No
NOx (Total)					lb/batch	No
PM-10 (Total)					lb/batch	No
Pb					lb/batch	No
SO2					lb/batch	No
TSP					lb/batch	No
VOC (Total)					lb/batch	No

Subject Item: **BP1300 BLDG 115**

Operating Scenario: **OS1300 BLDG 115**

Step: **ST1 BLDG 115**

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/step	No
HAPs (Total)					lb/step	No
NOx (Total)					lb/step	No
PM-10 (Total)					lb/step	No
Pb					lb/step	No
SO2					lb/step	No
TSP					lb/step	No
VOC (Total)					lb/step	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **BP1400 BLDG 185**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					tons/yr	No
HAPs (Total)			4.60000000	4.60000000	tons/yr	No
Hexamethylene-1,6-diisocyanate					lb/hr	
Hexamethylene-1,6-diisocyanate		0.57000000	0.01360000	0.01360000	tons/yr	No
Methyl isobutyl ketone (MIBK)					lb/hr	
Methyl isobutyl ketone (MIBK)			3.71000000	3.71000000	tons/yr	No
NOx (Total)					tons/yr	No
PM-10 (Total)					lb/hr	
PM-10 (Total)			0.15000000	0.15000000	tons/yr	No
Pb					tons/yr	No
SO2					tons/yr	No
TSP					lb/hr	
TSP			0.15000000	0.15000000	tons/yr	No
VOC (Total)			7.90000000	7.90000000	tons/yr	No
VOC (Total)					lb/hr	

Subject Item: **BP1500 ZI BUILDING**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Acrylic acid				D	tons/yr	No
CO					tons/yr	No
HAPs (Total)				D	tons/yr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **BP1500 ZI BUILDING**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
NOx (Total)					tons/yr	No
PM-10 (Total)					lb/hr	
PM-10 (Total)			7.66000000	7.66000000	tons/yr	No
Pb					tons/yr	No
SO2					lb/hr	
SO2			4.65000000	4.65000000	tons/yr	No
TSP			7.66000000	7.66000000	tons/yr	No
TSP					lb/hr	
VOC (Total)			24.14000000	24.14000000	tons/yr	No
VOC (Total)					lb/hr	

Subject Item: **BP1500 ZI BUILDING**

Operating Scenario: **OS1501 ZI BUILDING**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			0.75000000	0.75000000	lb/hr	

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **BP1600 BLDG 1205**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					tons/yr	No
HAPs (Total)			8.86000000	8.86000000	tons/yr	No
HAPs (Total)					lb/hr	
NOx (Total)					tons/yr	No
PM-10 (Total)			0.51000000	0.51000000	tons/yr	No
PM-10 (Total)					lb/hr	
Pb					tons/yr	No
SO2					tons/yr	No
TSP					lb/hr	
TSP			0.51000000	0.51000000	tons/yr	No
VOC (Total)			9.16000000	9.16000000	tons/yr	No
VOC (Total)					lb/hr	
Xylene			8.86000000	8.86000000	tons/yr	No

Subject Item: **BP1600 BLDG 1205**

Operating Scenario: **OS1699 STORAGE TANK**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)		1.58000000	1.58000000	1.58000000	lb/batch	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **BP1700 J-26/27 BLDG**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO	0.00000000		0.50000000	0.50000000	tons/yr	No
HAPs (Total)	0.00000000		4.70000000	4.70000000	tons/yr	No
Hydrogen chloride	0.00000000		2.00000000	2.00000000	tons/yr	No
Hydrogen fluoride	0.00000000		2.50000000	2.50000000	tons/yr	No
NOx (Total)	0.00000000		3.00000000	3.00000000	tons/yr	No
PM-10 (Total)	0.00000000		0.50000000	0.50000000	tons/yr	No
Pb					tons/yr	No
Phosgene	0.00000000		0.20000000	0.20000000	tons/yr	No
SO2					tons/yr	No
TSP	0.00000000		0.50000000	0.50000000	tons/yr	No
VOC (Total)	0.00000000		24.90000000	24.90000000	tons/yr	No

Subject Item: **BP1700 J-26/27 BLDG**

Operating Scenario: **OS1 J-26/27 BLDG**

Step: **ST1 1**

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)			0.09000000	0.09000000	lb/hr	
Hydrogen fluoride			0.09000000	0.09000000	lb/hr	
PM-10 (Total)			0.50000000	0.50000000	lb/hr	
TSP			0.50000000	0.50000000	lb/hr	
VOC (Total)			20.00000000	20.00000000	lb/hr	

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **BP1700 J-26/27 BLDG**

Operating Scenario: **OS1 J-26/27 BLDG**

Step: **ST2 2**

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)			1.32000000	1.32000000	lb/hr	
Hydrogen chloride			0.64000000	0.64000000	lb/hr	
Hydrogen fluoride			0.64000000	0.64000000	lb/hr	
NOx (Total)			2.25000000	2.25000000	lb/hr	
Phosgene			0.04000000	0.04000000	lb/hr	
VOC (Total)			4.10000000	4.10000000	lb/hr	

Subject Item: **BP1800 SMPF**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)					lb/hr	
VOC (Total)			6.20000000	6.20000000	tons/yr	No

Subject Item: **FC**

Operating Scenario:

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.87000000	0.87000000	tons/yr	No
CO			25.50000000	25.50000000	tons/yr	No
Greenhouse gases as CO2e			102.53500000	102.53500000	thousand tons/yr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **FC**

Operating Scenario:

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Chloroform			0.84000000	0.84000000	tons/yr	No
HAPs (Total)	3.84000000		51.82000000	55.66000000	tons/yr	No
Hexamethylene-1,6-diisocyanate			0.01400000	0.01400000	tons/yr	No
Hydrogen chloride			2.00000000	2.00000000	tons/yr	No
Hydrogen fluoride			2.50000000	2.50000000	tons/yr	No
Methyl chloride			4.55000000	4.55000000	tons/yr	No
Methyl isobutyl ketone (MIBK)			13.73000000	13.73000000	tons/yr	No
Methylene chloride (Dichloromethane)			2.00000000	2.00000000	tons/yr	No
NOx (Total)			31.13000000	31.13000000	tons/yr	No
Nitrobenzene			0.40000000	0.40000000	tons/yr	No
PM-10 (Total)	11.63000000		25.97000000	37.60000000	tons/yr	No
PM-2.5 (Total)	11.63000000		25.97000000	37.60000000	tons/yr	No
Phosgene			0.20000000	0.20000000	tons/yr	No
SO2			6.43000000	6.43000000	tons/yr	No
TSP	24.51000000		25.97000000	50.48000000	tons/yr	No
Tetrachloroethylene			2.72000000	2.72000000	tons/yr	No
VOC (Total)	7.58000000		227.46000000	235.04000000	tons/yr	No
Xylene			8.86000000	8.86000000	tons/yr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U901 BUILDING 120**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					tons/yr	No
Ethane				D	tons/yr	No
HAPs (Total)					tons/yr	No
Dichlorofluoroethane (HCFC-141)				D	tons/yr	No
Methane				D	tons/yr	No
NOx (Total)					tons/yr	No
PM-10 (Total)					tons/yr	No
Pb					tons/yr	No
SO2					tons/yr	No
TSP					tons/yr	No
VOC (Total)			5.25000000	5.25000000	tons/yr	No
VOC (Total)					lb/hr	

Subject Item: **U901 BUILDING 120**

Operating Scenario: **OS1 AB-94A, B**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
Ethane		D	D	D	lb/hr	No
HAPs (Total)					lb/hr	No
Dichlorofluoroethane (HCFC-141)		D	D	D	lb/hr	No
Methane		D	D	D	lb/hr	No
NOx (Total)					lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U901 BUILDING 120**

Operating Scenario: **OS1 AB-94A, B**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)				0.00000000	lb/hr	No

Subject Item: **U901 BUILDING 120**

Operating Scenario: **OS2 P-1469A, B**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Dichlorofluoroethane (HCFC-141)		D	D	D	lb/hr	No
VOC (Total)				3.50000000	lb/hr	No

Subject Item: **U901 BUILDING 120**

Operating Scenario: **OS3 TE-631A, B**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Dichlorofluoroethane (HCFC-141)		D	D	D	lb/hr	No
VOC (Total)				3.50000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U1500 ZI CONT PROC**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			D	0.00000000	tons/yr	No
TSP			D	0.00000000	tons/yr	No
VOC (Total)			D	0.00000000	tons/yr	No

Subject Item: **U1500 ZI CONT PROC**

Operating Scenario: **OS1560 T-56**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			0.00180000	0.00180000	lb/hr	No

Subject Item: **U1500 ZI CONT PROC**

Operating Scenario: **OS1561 E-SUMP**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			0.03950000	0.03950000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U1500 ZI CONT PROC**

Operating Scenario: **OS1562 T-1**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			0.03950000	0.03950000	lb/hr	No

Subject Item: **U1500 ZI CONT PROC**

Operating Scenario: **OS1563 T-2**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			0.00060000	0.00060000	lb/hr	No
TSP			0.00060000	0.00060000	lb/hr	No
VOC (Total)			0.02080000	0.02080000	lb/hr	No

Subject Item: **U1500 ZI CONT PROC**

Operating Scenario: **OS1564 T-3**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			0.00060000	0.00060000	lb/hr	No
TSP			0.00060000	0.00060000	lb/hr	No
VOC (Total)			0.02080000	0.02080000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U1500 ZI CONT PROC**

Operating Scenario: **OS1565 T-4**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			0.00430000	0.00430000	lb/hr	No

Subject Item: **U1500 ZI CONT PROC**

Operating Scenario: **OS1566 T-5**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			0.03950000	0.03950000	lb/hr	No

Subject Item: **U1500 ZI CONT PROC**

Operating Scenario: **OS1567 F-1**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			0.01540000	0.01540000	lb/hr	No

Subject Item: **U1500 ZI CONT PROC**

Operating Scenario: **OS1568 AD-1/2**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			0.00000000	0.00000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U1601 1205 Strg Tk**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			1.58000000	1.58000000	tons/yr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.87000000	0.87000000	tons/yr	No
CO					tons/yr	No
Chloroform			0.84000000	0.84000000	tons/yr	No
HAPs (Total)			18.90000000	18.90000000	tons/yr	No
Methyl chloride			4.55000000	4.55000000	tons/yr	No
Methyl isobutyl ketone (MIBK)			10.02000000	10.02000000	tons/yr	No
Methylene chloride (Dichloromethane)			2.00000000	2.00000000	tons/yr	No
NOx (Total)					tons/yr	No
Nitrobenzene			0.40000000	0.40000000	tons/yr	No
PM-10 (Total)			4.53000000	4.53000000	tons/yr	No
Pb					tons/yr	No
SO2					tons/yr	No
TSP			4.53000000	4.53000000	tons/yr	No
Tetrachloroethylene			2.72000000	2.72000000	tons/yr	No
VOC (Total)	0.53000000		41.55000000	42.08000000	tons/yr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3002 TS27 TO TE27**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			0.28000000	0.28000000	tons/yr	No
PM-10 (Total)			0.06400000	0.06400000	lb/hr	
TSP			0.28000000	0.28000000	tons/yr	No
TSP			0.06400000	0.06400000	lb/hr	

Subject Item: **U3000 SET**

Operating Scenario: **OS3004 TS28 TO TE28**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			0.06400000	0.06400000	lb/hr	No
TSP			0.06400000	0.06400000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3006 TS29 TO TE29**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			0.06400000	0.06400000	lb/hr	No
TSP			0.06400000	0.06400000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3008 TS30 TO TE30**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			0.06400000	0.06400000	lb/hr	No
TSP			0.06400000	0.06400000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3019 TS-71A**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)			D	D	lb/hr	No
VOC (Total)			0.36000000	0.36000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3020 TS-71B**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)			D	D	lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3020 TS-71B**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			0.36000000	0.36000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3021 TS-71C**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)			D	D	lb/hr	No
VOC (Total)			0.57000000	0.57000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3022 FP-75**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)			D	D	lb/hr	No
VOC (Total)			D	D	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3023 FP-76**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)			D	D	lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			D	D	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3024 FP-277**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)			D	D	lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			D	D	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3025 CP-131**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			0.10000000	0.10000000	lb/hr	No
TSP			0.10000000	0.10000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3027 RE-26**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)					lb/hr	No
PM-10 (Total)			0.70000000	0.70000000	lb/hr	No
TSP			0.70000000	0.70000000	lb/hr	No
VOC (Total)					lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3029 T-75**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)					lb/hr	No
TSP					lb/hr	No
VOC (Total)			D	D	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3030 T-76**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			D	D	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3031 TS-126B**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)					lb/hr	No
PM-10 (Total)			0.50000000	0.50000000	lb/hr	No
PM-10 (Total)			0.04600000	0.04600000	tons/yr	
TSP			0.50000000	0.50000000	lb/hr	No
TSP			0.04600000	0.04600000	tons/yr	

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3032 TS-126A**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			D	D	lb/hr	No
TSP			D	D	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3101 PUMP PIT**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.08000000	0.08000000	lb/hr	No
CO					lb/hr	No
Chloroform			0.01000000	0.01000000	lb/hr	No
HAPs (Total)			0.09000000	0.09000000	lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3102 PRIMARY WW S**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3103 WWTP GT-49**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.48000000	0.48000000	lb/hr	No
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3108 WWTP CF-61**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.55000000	0.55000000	lb/hr	No
CO					lb/hr	No
Chloroform			0.10000000	0.10000000	lb/hr	No
HAPs (Total)			3.00000000	3.00000000	lb/hr	No
Methyl isobutyl ketone (MIBK)			3.00000000	3.00000000	lb/hr	No
NOx (Total)					lb/hr	No
Nitrobenzene			0.78000000	0.78000000	lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3109 WWTP CF-62**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.55000000	0.55000000	lb/hr	No
CO					lb/hr	No
Chloroform			0.10000000	0.10000000	lb/hr	No
HAPs (Total)			3.00000000	3.00000000	lb/hr	No
Methyl isobutyl ketone (MIBK)			3.00000000	3.00000000	lb/hr	No
NOx (Total)					lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3109 WWTP CF-62**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Nitrobenzene			0.78000000	0.78000000	lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3110 WWTP CF-63**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.55000000	0.55000000	lb/hr	No
CO					lb/hr	No
Chloroform			0.10000000	0.10000000	lb/hr	No
HAPs (Total)			3.00000000	3.00000000	lb/hr	No
Methyl isobutyl ketone (MIBK)			3.00000000	3.00000000	lb/hr	No
NOx (Total)					lb/hr	No
Nitrobenzene			0.78000000	0.78000000	lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3111 WWTP CF-64**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.55000000	0.55000000	lb/hr	No
CO					lb/hr	No
Chloroform			0.10000000	0.10000000	lb/hr	No
HAPs (Total)			3.00000000	3.00000000	lb/hr	No
Methyl isobutyl ketone (MIBK)			3.00000000	3.00000000	lb/hr	No
NOx (Total)					lb/hr	No
Nitrobenzene			0.78000000	0.78000000	lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3112 WWTP PT-231**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3112 WWTP PT-231**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3115 WWTP AE-151**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.41000000	0.41000000	lb/hr	No
Benzene			0.04800000	0.04800000	tons/yr	No
CO					lb/hr	No
Chloroform			0.07000000	0.07000000	tons/yr	No
Chloroform			0.53000000	0.53000000	lb/hr	No
HAPs (Total)			3.92000000	3.92000000	lb/hr	No
Methyl chloride			2.28000000	2.28000000	lb/hr	No
Methyl chloride			1.62000000	1.62000000	tons/yr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
Tetrachloroethylene			0.07300000	0.07300000	tons/yr	No
Tetrachloroethylene			0.22000000	0.22000000	lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3116 WWTP AE-152**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.41000000	0.41000000	lb/hr	No
Benzene			0.04800000	0.04800000	tons/yr	No
CO					lb/hr	No
Chloroform			0.07000000	0.07000000	tons/yr	No
Chloroform			0.53000000	0.53000000	lb/hr	No
HAPs (Total)			3.92000000	3.92000000	lb/hr	No
Methyl chloride			1.62000000	1.62000000	tons/yr	No
Methyl chloride			2.28000000	2.28000000	lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
Tetrachloroethylene			0.22000000	0.22000000	lb/hr	No
Tetrachloroethylene			0.07300000	0.07300000	tons/yr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3117 WWTP AE-153**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.41000000	0.41000000	lb/hr	No
Benzene			0.04800000	0.04800000	tons/yr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3117 WWTP AE-153**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
Chloroform			0.53000000	0.53000000	lb/hr	No
Chloroform			0.07000000	0.07000000	tons/yr	No
HAPs (Total)			3.92000000	3.92000000	lb/hr	No
Methyl chloride			2.28000000	2.28000000	lb/hr	No
Methyl chloride			1.62000000	1.62000000	tons/yr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
Tetrachloroethylene			0.22000000	0.22000000	lb/hr	No
Tetrachloroethylene			0.07300000	0.07300000	tons/yr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3118 GT-161**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3118 GT-161**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3119 CF-161**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3120 CF-162**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3121 P-185**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3122 TS-500**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.36000000	0.36000000	lb/hr	No
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3123 TS-501**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.36000000	0.36000000	lb/hr	No
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3124 TS-502**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.36000000	0.36000000	lb/hr	No
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3125 NE-41**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)			0.01000000	0.01000000	lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
Tetrachloroethylene			0.01000000	0.01000000	lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3126 NE-42**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.13000000	0.13000000	lb/hr	No
CO					lb/hr	No
HAPs (Total)			0.13000000	0.13000000	lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3127 NE-43**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Benzene			0.13000000	0.13000000	lb/hr	No
CO					lb/hr	No
Chloroform			0.02000000	0.02000000	lb/hr	No
HAPs (Total)			0.15000000	0.15000000	lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3127 NE-43**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3129 CF-163**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3130 AE-251**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3130 AE-251**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			0.88000000	0.88000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3131 CF-261**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			0.88000000	0.88000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3132 CF-262**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			0.88000000	0.88000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3133 SET: GT-312**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			3.00000000	3.00000000	lb/hr	No

Subject Item: **U3000 SET**

Operating Scenario: **OS3134 SET: DW-1**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			1.00000000	1.00000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3000 SET**

Operating Scenario: **OS3230 T-3**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			0.55000000	0.55000000	tons/yr	No

Subject Item: **U3501 3 Temp Gens**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			0.96700000	0.96700000	tons/yr	No
NOx (Total)			4.49000000	4.49000000	tons/yr	No
PM-10 (Total)			0.31800000	0.31800000	tons/yr	No
SO2			0.29700000	0.29700000	tons/yr	No
TSP			0.31800000	0.31800000	tons/yr	No
VOC (Total)			0.35800000	0.35800000	tons/yr	No

Subject Item: **U3501 3 Temp Gens**

Operating Scenario: **OS1 Gen -1**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			4.48000000	4.48000000	lb/hr	No
NOx (Total)			20.76000000	20.76000000	lb/hr	No
PM-10 (Total)			1.48000000	1.48000000	lb/hr	No
SO2			1.37000000	1.37000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3501 3 Temp Gens**

Operating Scenario: **OS1 Gen -1**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
TSP			1.48000000	1.48000000	lb/hr	No
VOC (Total)			1.66000000	1.66000000	lb/hr	No

Subject Item: **U3501 3 Temp Gens**

Operating Scenario: **OS2 Gen -2**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			4.48000000	4.48000000	lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)			20.76000000	20.76000000	lb/hr	No
PM-10 (Total)			1.48000000	1.48000000	lb/hr	No
Pb					lb/hr	No
SO2			1.37000000	1.37000000	lb/hr	No
TSP			1.48000000	1.48000000	lb/hr	No
VOC (Total)			1.66000000	1.66000000	lb/hr	No

Subject Item: **U3501 3 Temp Gens**

Operating Scenario: **OS3 Gen -3**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			4.48000000	4.48000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3501 3 Temp Gens**

Operating Scenario: **OS3 Gen -3**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)					lb/hr	No
NOx (Total)			20.76000000	20.76000000	lb/hr	No
PM-10 (Total)			1.48000000	1.48000000	lb/hr	No
Pb					lb/hr	No
SO2			1.37000000	1.37000000	lb/hr	No
TSP			1.48000000	1.48000000	lb/hr	No
VOC (Total)			1.66000000	1.66000000	lb/hr	No

Subject Item: **U3502 3 Temp Pumps**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			0.97000000	0.97000000	tons/yr	No
NOx (Total)			4.50000000	4.50000000	tons/yr	No
PM-10 (Total)			0.32000000	0.32000000	tons/yr	No
SO2			0.30000000	0.30000000	tons/yr	No
TSP			0.32000000	0.32000000	tons/yr	No
VOC (Total)			0.36000000	0.36000000	tons/yr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3502 3 Temp Pumps**

Operating Scenario: **OS1 P -1**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			1.83700000	1.83700000	lb/hr	No
NOx (Total)			8.52500000	8.52500000	lb/hr	No
PM-10 (Total)			0.60500000	0.60500000	lb/hr	No
SO2			0.56400000	0.56400000	lb/hr	No
TSP			0.60500000	0.60500000	lb/hr	No
VOC (Total)			0.68000000	0.68000000	lb/hr	No

Subject Item: **U3502 3 Temp Pumps**

Operating Scenario: **OS2 P -2**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			1.83700000	1.83700000	lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)			8.52500000	8.52500000	lb/hr	No
PM-10 (Total)			0.60500000	0.60500000	lb/hr	No
Pb					lb/hr	No
SO2			0.56400000	0.56400000	lb/hr	No
TSP			0.60500000	0.60500000	lb/hr	No
VOC (Total)			0.68000000	0.68000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U3502 3 Temp Pumps**

Operating Scenario: **OS3 P-3**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			1.83700000	1.83700000	lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)			8.52500000	8.52500000	lb/hr	No
PM-10 (Total)			0.60500000	0.60500000	lb/hr	No
Pb					lb/hr	No
SO2			0.56400000	0.56400000	lb/hr	No
TSP			0.60500000	0.60500000	lb/hr	No
VOC (Total)			0.68000000	0.68000000	lb/hr	No

Subject Item: **U3700 GDF**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			0.12000000	0.12000000	tons/yr	No

Subject Item: **U3700 GDF**

Operating Scenario: **OS3701 GDF Tank**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)					lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					tons/yr	No
HAPs (Total)				D	tons/yr	No
NOx (Total)					tons/yr	No
PM-10 (Total)				D	tons/yr	No
PM-10 (Total)			0.05000000	0.05000000	lb/hr	
Pb					tons/yr	No
SO2					tons/yr	No
TSP				D	tons/yr	No
TSP			0.05000000	0.05000000	lb/hr	
VOC (Total)			63.77000000	63.77000000	tons/yr	No
VOC (Total)			15.12000000	15.12000000	lb/hr	

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5501 SP-326**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
VOC (Total)			1.82000000	1.82000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5502 D-344**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			15.40000000	15.40000000	lb/yr	
VOC (Total)					lb/hr	No

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5503 D-345**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			15.40000000	15.40000000	lb/yr	
VOC (Total)					lb/hr	No

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5504 CP-301**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
TSP					lb/hr	No
VOC (Total)					lb/hr	No
VOC (Total)			0.19000000	0.19000000	lb	

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5505 TFE/HCL L/UN**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
TSP					lb/hr	No
VOC (Total)			0.24000000	0.24000000	lb	
VOC (Total)					lb/hr	No

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5506 TS-305/C-306**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
TSP					lb/hr	No
VOC (Total)			3.50000000	3.50000000	lb/hr	No

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5507 BL-166**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			D	D	lb/hr	No
TSP			D	D	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5508 PACK**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			D	D	lb/hr	No
TSP			D	D	lb/hr	No

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5509 TF-271**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)					lb/hr	No
TSP					lb/hr	No
VOC (Total)			0.28000000	0.28000000	lb/hr	No

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5510 VF2 UNLOAD**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)					lb/hr	No
VOC (Total)			0.62000000	0.62000000	lb	

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5512 D-273**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			D	D	lb/hr	No
TSP			D	D	lb/hr	No
VOC (Total)					lb/hr	No

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5513 TG-275**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)			D	D	lb/hr	No
TSP			D	D	lb/hr	No
VOC (Total)					lb/hr	No

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5523 SP-277**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			15.12000000	15.12000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5524 TC-305**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)				15.12000000	lb/hr	No

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5525 MONOMER RR**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)				15.12000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5526 T-281/T-283**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)				15.12000000	lb/hr	No

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5527 COMPRESS AR**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)				15.12000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5528 D-402**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)				15.12000000	lb/hr	No

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5529 CY-408**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)			15.12000000	15.12000000	lb/hr	No

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5550 TFE/CO2 Sep**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Tetrafluoroethylene			1.50000000	1.50000000	tons/yr	No
VOC (Total)			1.50000000	1.50000000	tons/yr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U5500 Elastomers**

Operating Scenario: **OS5551 NAOH disenga**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
Tetrafluoroethylene			2.00000000	2.00000000	tons/yr	No
Tetrafluoroethylene			0.60000000	0.60000000	lb/hr	No
VOC (Total)			0.60000000	0.60000000	lb/hr	No
VOC (Total)			2.00000000	2.00000000	tons/yr	No

Subject Item: **U9000 Temp Pump #1**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			0.17000000	0.17000000	tons/yr	No
HAPs (Total)					tons/yr	No
NOx (Total)			0.38000000	0.38000000	tons/yr	No
PM-10 (Total)			0.02000000	0.02000000	tons/yr	No
SO2			0.13000000	0.13000000	tons/yr	No
TSP			0.02000000	0.02000000	tons/yr	No
VOC (Total)			0.38000000	0.38000000	tons/yr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U9000 Temp Pump #1**

Operating Scenario: **OS9001 Temp Pump #1**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			0.41000000	0.41000000	lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)			0.90000000	0.90000000	lb/hr	No
PM-10 (Total)			0.05000000	0.05000000	lb/hr	No
SO2			0.32000000	0.32000000	lb/hr	No
TSP			0.05000000	0.05000000	lb/hr	No
VOC (Total)			0.90000000	0.90000000	lb/hr	No

Subject Item: **U10000 Generators**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			0.54000000	0.54000000	tons/yr	No
NOx (Total)			2.49000000	2.49000000	tons/yr	No
PM-10 (Total)			0.18000000	0.18000000	tons/yr	No
SO2			0.17000000	0.17000000	tons/yr	No
TSP			0.18000000	0.18000000	tons/yr	No
VOC (Total)			0.20000000	0.20000000	tons/yr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U10000 Generators**

Operating Scenario: **OS10001 GR 14**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			0.53700000	0.53700000	lb/hr	No
NOx (Total)			2.49400000	2.49400000	lb/hr	No
PM-10 (Total)			0.17700000	0.17700000	lb/hr	No
SO2			0.16500000	0.16500000	lb/hr	No
TSP			0.17700000	0.17700000	lb/hr	No
VOC (Total)			0.19900000	0.19900000	lb/hr	No

Subject Item: **U10000 Generators**

Operating Scenario: **OS10002 Gr 15**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			0.53700000	0.53700000	lb/hr	No
NOx (Total)			2.49400000	2.49400000	lb/hr	No
PM-10 (Total)			0.17700000	0.17700000	lb/hr	No
SO2			0.16500000	0.16500000	lb/hr	No
TSP			0.17700000	0.17700000	lb/hr	No
VOC (Total)			0.19900000	0.19900000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U11000 Fire Pumps**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO		0.15100000	0.15100000	0.15100000	tons/yr	No
NOx (Total)		0.23500000	0.23500000	0.23500000	tons/yr	No
PM-10 (Total)		0.01300000	0.01300000	0.01300000	tons/yr	No
TSP		0.01300000	0.01300000	0.01300000	tons/yr	No
VOC (Total)		0.01300000	0.01300000	0.01300000	tons/yr	No

Subject Item: **U11000 Fire Pumps**

Operating Scenario: **OS1 Fire Pump**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO		1.01000000	1.01000000	1.01000000	lb/hr	No
HAPs (Total)		1.56700000	1.56700000	1.56700000	lb/hr	No
PM-10 (Total)		0.08400000	0.08400000	0.08400000	lb/hr	No
TSP		0.08400000	0.08400000	0.08400000	lb/hr	No
VOC (Total)		0.08800000	0.08800000	0.08800000	lb/hr	No

Subject Item: **U11000 Fire Pumps**

Operating Scenario: **OS2 Fire Pump**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO		1.01000000	1.01000000	1.01000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U11000 Fire Pumps**

Operating Scenario: **OS2 Fire Pump**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
HAPs (Total)		1.56700000	1.56700000	1.56700000	lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)		0.08400000	0.08400000	0.08400000	lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP		0.08400000	0.08400000	0.08400000	lb/hr	No
VOC (Total)		0.08800000	0.08800000	0.08800000	lb/hr	No

Subject Item: **U11000 Fire Pumps**

Operating Scenario: **OS3 Fire Pump**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO		1.01000000	1.01000000	1.01000000	lb/hr	No
HAPs (Total)		1.56700000	1.56700000	1.56700000	lb/hr	No
NOx (Total)					lb/hr	No
PM-10 (Total)		0.08400000	0.08400000	0.08400000	lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP		0.08400000	0.08400000	0.08400000	lb/hr	No
VOC (Total)		0.08800000	0.08800000	0.08800000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U12000 Ped GR 16**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO		0.06000000	0.06000000	0.06000000	tons/yr	No
NOx (Total)		0.87000000	0.87000000	0.87000000	tons/yr	No
PM-10 (Total)		0.03000000	0.03000000	0.03000000	tons/yr	No
SO2		0.10000000	0.10000000	0.10000000	tons/yr	No
TSP		0.03000000	0.03000000	0.03000000	tons/yr	No
VOC (Total)		0.04000000	0.04000000	0.04000000	tons/yr	No

Subject Item: **U13000 Compressors**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			18.88000000	18.88000000	tons/yr	No
HAPs (Total)					tons/yr	No
NOx (Total)			2.16000000	2.16000000	tons/yr	No
PM-10 (Total)					tons/yr	No
Pb					tons/yr	No
SO2					tons/yr	No
TSP					tons/yr	No
VOC (Total)			1.03000000	1.03000000	tons/yr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U13000 Compressors**

Operating Scenario: **OS13001 CP-006**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			1.44000000	1.44000000	lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)			0.16000000	0.16000000	lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			0.07800000	0.07800000	lb/hr	No

Subject Item: **U13000 Compressors**

Operating Scenario: **OS13002 CP-007**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			1.44000000	1.44000000	lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)			0.16000000	0.16000000	lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			0.07800000	0.07800000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U13000 Compressors**

Operating Scenario: **OS13003 CP-008**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			1.44000000	1.44000000	lb/hr	No
HAPs (Total)					lb/hr	No
NOx (Total)			0.16000000	0.16000000	lb/hr	No
PM-10 (Total)					lb/hr	No
Pb					lb/hr	No
SO2					lb/hr	No
TSP					lb/hr	No
VOC (Total)			0.07800000	0.07800000	lb/hr	No

Subject Item: **U14001 CP-J25**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			0.65000000	0.65000000	tons/yr	No
NOx (Total)			1.30000000	1.30000000	tons/yr	No
PM-10 (Total)			0.06000000	0.06000000	tons/yr	No
TSP			0.06000000	0.06000000	tons/yr	No
VOC (Total)			0.15000000	0.15000000	tons/yr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U14001 CP-J25**

Operating Scenario: **OS1 CP-J25**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			0.90000000	0.90000000	lb/hr	No
NOx (Total)			1.81000000	1.81000000	lb/hr	No
PM-10 (Total)			0.08000000	0.08000000	lb/hr	No
TSP			0.08000000	0.08000000	lb/hr	No
VOC (Total)			0.20000000	0.20000000	lb/hr	No