



State of New Jersey

Department of Environmental Protection

Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

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

Trenton, NJ 08625-0420

PHILIP D. MURPHY

Governor

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Lt. Governor

SHAWN M. LATOURETTE

COMMISSIONER

Air Pollution Control Operating Permit Significant Modification

Permit Activity Number: BOP220001

Program Interest Number: 55707

Mailing Address	Plant Location
J ROBERT KNIGHTON PLANT MANAGER POLYMER ADDITIVES INC PO BOX 309 - 170 RT 130 S Bridgeport, NJ 08014	POLYMER ADDITIVES INC 170 Rt 130 South Bridgeport Gloucester County

Initial Operating Permit Approval Date:

July 18, 2005

Operating Permit Approval Date:

DRAFT

Operating Permit Expiration Date:

July 17, 2020 (operating under application shield)

AUTHORITY AND APPLICABILITY

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

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

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

PERMIT SHIELD

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

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

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

ACCESSING PERMITS

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

HELPLINE

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

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

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

COMPLIANCE ASSURANCE MONITORING

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

ADMINISTRATIVE HEARING REQUEST

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

If you have any questions regarding this permit approval, please call Christopher Schwalje at (609) 292-1192.

Approved by:

Kevin Greener

Enclosure

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

Facility Name: POLYMER ADDITIVES INC
Program Interest Number: 55707
Permit Activity Number: BOP220001

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Section A

Facility Name: POLYMER ADDITIVES INC
Program Interest Number: 55707
Permit Activity Number: BOP220001

POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all Significant Source Operations¹ 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} ² (total)	Pb	HAPs* (total)	CO ₂ e ³
Emission Units Summary	179.43	17.9	34.32	0.81	7.80	4.80	4.48	N/A	82.82	
Batch Process Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Group Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Emissions	179.43	17.9	34.32	0.81	7.80	4.80	4.48	N/A	82.82	92,707

Table 2: Estimate of total emissions from all Insignificant Source Operations¹ 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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-Source Fugitive Emissions ⁴	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

VOC: Volatile Organic Compounds

NO_x: Nitrogen Oxides

CO: Carbon Monoxide

SO₂: Sulfur Dioxide

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

TSP: Total Suspended Particulates

Other: Any other air contaminant

regulated under the Federal CAA

PM₁₀: Particulates under 10 microns

PM_{2.5}: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO₂e: Carbon Dioxide equivalent

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

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

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

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

³ Total CO₂e emissions for the facility.

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

Section A

Facility Name: POLYMER ADDITIVES INC
Program Interest Number: 55707
Permit Activity Number: BOP220001

POLLUTANT EMISSIONS SUMMARY

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

HAP	TPY
Benzene	0.40
Benzyl chloride	1.29
Beryllium	0.00001
Chlorine	1.31
Cobalt	0.0000634
Dimethylbenz(a)anthracene	0.00001211
Ethyl chloride	41.07
Formaldehyde	0.0568
Hydrogen chloride	4.704
Methylene chloride	0.63
Nickel	0.000434
Phenol	0.716
Phthalic anhydride	6.321
Propylene oxide	0.15
Toluene	16.96
Triethylamine	9.16

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

Other Air Contaminant	TPY
Ammonia	8.51
Methane	1.28

⁵ 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: POLYMER ADDITIVES INC

Program Interest Number: 55707

Permit Activity Number: BOP220001

GENERAL PROVISIONS AND AUTHORITIES

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

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

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

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

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

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

Section C

Facility Name: POLYMER ADDITIVES INC

Program Interest Number: 55707

Permit Activity Number: BOP220001

STATE-ONLY APPLICABLE REQUIREMENTS

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

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

<u>SECTION</u>	<u>SUBJECT ITEM</u>	<u>ITEM #</u>	<u>REF. #</u>
B	---	1	---
B	---	10b	---
D	FC	---	3
D	FC	---	9

Section D

Facility Name: POLYMER ADDITIVES INC
Program Interest Number: 55707
Permit Activity Number: BOP220001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

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

FC	1
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Non-Source Fugitive Emissions (FG):

FG NJID	FG Description	
FG1	Benzyl Chloride-flanges, valves, pumps, connectors, relief devices	7
FG3	Phosphate Esters-flanges, valves, pumps, connectors, relief devices	7
FG4	Benzyl Phthalates-flanges, valves, pumps, connectors, relief devices	7
FG5	Utilities-flanges, valves, pumps, connectors, relief devices	7
FG6	Wastewater Treatment Plant-flanges, valves, pumps, connectors, relief devices	7
FG7	Boilers-flanges, valves, pumps, connectors, relief devices	7

Insignificant Sources (IS):

IS NJID	IS Description	
IS3	02-STV-04 Benzyl Chloride Storage Tank (< 10,000 gal. Storage Non-Applicable VOC)	11
IS4	02-PTV-03 Benzyl Chloride Shed Drumming Tank (< 10,000 gal. Storage Non-Applicable VOC)	11
IS303	03-PCT-01 Cooling Tower (< 50 lbs/hr additive)	12
IS404	72-STV-03 Pump Fuel Oil Tank (< 2000 gal. Storage of VOC; VP >=0.02 psia)	13
IS406	72-STV-05 Diesel Fuel Tank (< 2000 gal. Storage of VOC; VP >=0.02 psia)	13
IS407	72-STV-11 Diesel Tank (PE1) (<10,000 gal. Storage Non-Applicable VOC)	13
IS408	72-STV-12 Diesel Tank (PE2) (<10,000 gal. Storage Non-Applicable VOC)	13
IS409	72-STV-13 Diesel Tank (Comp Shed) (<10,000 gal. Storage Non-Applicable VOC)	13
IS410	72-STV-14 Diesel Tank (Fire Water Pump) (<10,000 gal. Storage Non-Applicable VOC)	13
IS411	72-STV-15 WWTP Diesel Generator Tank (< 2000 gal. Storage of VOC; VP >=0.02 psia)	13
IS606	Parts Washer (Using 2 gal or more of solvents containing > 5% VOC content by weight)	17

Groups (GR):

GR NJID	GR Designation	GR Description	
GR1	MACT A	MACT Subpart A	18
GR2	MACT F	MACT Subpart F	31

GR3	MACT G	MACT Subpart G	39
GR4	MACT H	MACT Subpart H	47
GR5	MACT NNNNN	MACT Subpart NNNNN	61

Emission Units (U):

U NJID	U Designation	U Description	
U1		Benzyl Chloride, subject to NESHAP FF and MACT Subparts F, G, & H	73
U3		Phosphate Esters, subject to MACT Subpart FFFF	109
U4		Benzyl Phthalates, subject to MACT Subpart FFFF	138
U5		Utilities, subject to MACT Subpart ZZZZ	201
U6		Wastewater Treatment Plant	211
U7		Two Boilers, firing Natural Gas & #2 Fuel (Emergency Use Only), subject to MACT Subpart DDDDD and NSPS Subpart Dc	245
U8		Vertical Fixed Roof Tank storing #2 Fuel Oil	276
U9	72-STA-01	East Fire Water Pump, 228 kW (GOP-003)	278
U700	Temp Boiler	Temporary Boiler	290

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

Permit Being Modified

Permit Class: BOP **Number:** 220002

Description of Modifications: The following changes were made to the operating permit during this modification process:

1. Increased the capacity of the Vogt Boiler (E602, Emission Unit U7 OS2 and 3) from 44 MMBTU/hr to 46.4 MMBTU/hr when firing natural gas and 44.1 MMBTU/hr when firing #2 fuel oil; and
2. Increased the capacity of the Murray Boiler (E603, Emission Unit U7 OS4 and 5) from 49 MMBTU/hr to 84.6 MMBtu/hr when firing natural gas and 80.3 MMBtu/hr when firing #2 fuel oil.

Both boilers will fire natural gas as the primary fuel and #2 fuel oil for emergency usage only. Both boilers are being retrofit with low NOx burners and Flue Gas Recirculation to achieve compliance with SOTA requirements for NOx (for the Murray Boiler) and CO (for both boilers). Both boilers are subject to the requirements of 40 CFR 60 Subpart Dc and 40 CFR 63 Subpart DDDDD (operating under the Gas 1 subcategory).

The changes made during this permit activity result in an increase of allowable annual emissions of VOC by 0.43 tons, Methane by 0.36 tons, Beryllium by 0.00001 tons, Cobalt by 0.0000462 tons, Dimethylbenz(a)anthracene (7,12-) by 0.00000879 tons, and Nickel by 0.00116 tons.

The changes made during this permit activity result in a decrease of allowable annual emissions of NOx by 38.2 tons, CO by 10.9 tons, SO2 by 41.3 tons, TSP by 1.53 tons, PM-10 by 3.06 tons, total HAPs by 3.2 tons, Formaldehyde by 0.048 tons, and Polycyclic Organic Matter by 0.0048 tons.

BOP220001

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

Subject Item: FC

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

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Compliance Certification: The permittee shall submit an annual Compliance Certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f). [N.J.A.C. 7:27-22]	None.	None.	Submit an Annual Compliance Certification: Annually to the Department and to EPA within 60 days after the end of each calendar year during which this permit was in effect. The Compliance Certification shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The certification should be printed for submission to EPA. The NJDEP online web portal can be accessed at: 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.

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

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Deviation Reports: The permittee shall submit to the Department a certified six-month Deviation Report relating to testing and monitoring required by the operating permit. [N.J.A.C. 7:27-22.19(d)3], [N.J.A.C. 7:27-22.19(e)], and [N.J.A.C. 7:27-22.19(c)]	None.	Other: The permittee shall maintain deviation reports for a period of five years from the date each report is submitted to the Department. [N.J.A.C. 7:27-22.19(a)] and [N.J.A.C. 7:27-22.19(e)].	Submit a report: As per the approved schedule. The six-month deviation reports for the period from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and for the period from July 1 through December 31, shall be submitted by January 30 of the following calendar year. The annual compliance certification required by N.J.A.C. 7:27-22.19(f) may also be considered as your six-month Deviation Report for the period from July 1 – December 31, if submitted by January 30 of the following calendar year. The reports shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The NJDEP online web portal can be accessed at: 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]

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

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

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Facility Specific Requirements**

Subject Item: FG1 Benzyl Chloride-flanges, valves, pumps, connectors, relief devices, FG3 Phosphate Esters-flanges, valves, pumps, connectors, relief devices, FG4 Benzyl Phthalates-flanges, valves, pumps, connectors, relief devices, FG5 Utilities-flanges, valves, pumps, connectors, relief devices, FG6 Wastewater Treatment Plant-flanges, valves, pumps, connectors, relief devices, FG7 Boilers-flanges, valves, pumps, connectors, relief devices

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The provisions of N.J.A.C. 7:27-16.18 shall apply only to equipment in contact with a substance that at any chemical plant, other than a synthetic organic chemical or polymer manufacturing facility, is 10 percent by weight or greater applicable VOC, and the total quantity of applicable VOC processed in the equipment is greater than 550 tons per year. The total quantity processed shall include the total annual quantity of applicable VOC charged to all operations for which the equipment is used and does not include any in-process recycled and in-process refluxed applicable VOC and any applicable VOC and any applicable VOC which is generated during the process. [N.J.A.C. 7:27-16.18(b)4]	None.	None.	None.

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

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The owner or operator of a chemical plant that is a major VOC facility shall develop and implement a leak detection and repair program for any equipment subject to the provisions of N.J.A.C. 7:27-16.18(c) and (d) if such equipment is not subject to the provisions of N.J.A.C. 7:27-16.18(f), (g), or (h). [N.J.A.C. 7:27-16.18(i)]	None.	None.	None.
5	Any owner or operator of a chemical plant subject to N.J.A.C.7:27-16.18(i) shall comply with N.J.A.C. 7:27-16.18(j)1 beginning May 31, 1995. A log of information about components detected to have regulated leaks shall be maintained. The log shall be retained for a minimum of five years and be made available immediately upon request by the Department. [N.J.A.C. 7:27-16.18(j)1]	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The log shall contain the following data for each instance in which a component is detected to have a regulated leak:</p> <ul style="list-style-type: none"> i. The name of the process unit where the component detected to have a regulated leak is located; ii. The type of component; iii. The tag identification number of the component; iv. The date on which the regulated leak was detected; v. The date on which the component detected to have a regulated leak was repaired; vi. The date and instrument reading of the retest procedure after a component detected to have a regulated leak is repaired; vii. A record of the calibration of the monitoring instrument; viii. An identification of those regulated leaks that cannot be repaired without a process unit shutdown; and ix. The total number of components monitored and the total number of components detected to have a regulated leak. [N.J.A.C. 7:27-22.16(o)] 	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Any owner or operator of a chemical plant subject to N.J.A.C. 7:27-16.18(i) shall comply with N.J.A.C. 7:27-16.18(j)2 beginning May 31, 1995. Within 30 days following the last day of every third month, a report shall be submitted to the Department's regional enforcement office that lists all components detected to have a regulated leak during the previous three calendar months that have not been repaired within the applicable time limits set forth in Tables 18A and 18B, all components detected to have a regulated leak whose repair is awaiting a process unit shutdown, all components not tested because they were not in contact with applicable VOC or not in operation during their specified monitoring period, the total number of components inspected, and the total number of components detected to have a regulated leak. [N.J.A.C. 7:27-16.18(j)2]	None.	None.	Submit a report: Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) . [N.J.A.C. 7:27-16.18(j)2]
7	No owner or operator of any facility listed in N.J.A.C. 7:27-16.18(o)4 shall install or operate a valve, except for a safety pressure relief valve, at the end of a pipe or line containing applicable VOC unless the pipe or line is sealed with a second valve, a blind flange, a plug or a cap. The sealing device may be removed only when a sample is being taken, during actual use in the process, or during maintenance. A fill line that is used to regularly fill containers is considered to be in actual use in the process for the purpose of this provision. [N.J.A.C. 7:27-16.18(o)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
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Subject Item: IS3 02-STV-04 Benzyl Chloride Storage Tank (< 10,000 gal. Storage Non-Applicable VOC) , IS4 02-PTV-03 Benzyl Chloride Shed Drumming Tank (< 10,000 gal. Storage Non-Applicable VOC)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See GR1 for MACT Subpart A requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	See GR2 for MACT Subpart F requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	See GR3 for MACT Subpart G requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	See GR4 for MACT Subpart H requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
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Subject Item: IS303 03-PCT-01 Cooling Tower (< 50 lbs/hr additive)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period.[N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	Conduct monitoring of the influent and effluent Benzyl Phthalates Cooling Tower (03-PCT-01) streams monthly for the first 6 months and quarterly thereafter to detect HAP leaks into the cooling water. The Benzyl Phthalate Cooling Tower supplies cooling water to the following Group 1 U4 heat exchangers: E301-1, E301-2, E302-1, E303, E305, V305, E308, E309, E310, E311, E312, E404, E409, E414, E417, E455, E602, and the Vilter Refrigeration Cooler. [40 CFR 63.104(b)(1)]	Monitored by periodic leak detection monitoring at the approved frequency. Conduct monitoring in accordance with a Benzyl Phthalates Cooling Tower Monitoring Plan maintained on-site that documents the monitoring, recordkeeping, leak repair and operating procedures utilized to detect leaks of process fluids from Group 1 U4 heat exchangers into the cooling water. [40 CFR 63.104(b)(1)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain the following records for five (5) years. (1) Monitoring data indicating a leak, the date the leak was detected, and if demonstrated not to be a leak, the basis for that determination. (2) The dates of efforts to repair leaks. (3) The method or procedure used to confirm repair of a leak and the date repair was confirmed. [40 CFR 63.104(f)(1)]	Submit a report: As per the approved schedule (semiannually. Each subsequent compliance report must be postmarked or delivered no later than August 31 or February 28, whichever date is the first date following the end of the semiannual reporting period). If the owner or operator invokes the delay of repair provisions for the cooling tower heat exchanger system, submit the following information in the next semi-annual report: (1) date leak detected; (2) date leak repaired or expected to be repaired; (3) reasons for delay of repair; (4) emission estimates if 40 CFR 63.104(e)(2) invoked. [40 CFR 63.104] &. [40 CFR 63.2520]

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**New Jersey Department of Environmental Protection
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Subject Item: IS404 72-STV-03 Pump Fuel Oil Tank (< 2000 gal. Storage of VOC; VP >=0.02 psia), IS406 72-STV-05 Diesel Fuel Tank (< 2000 gal. Storage of VOC; VP >=0.02 psia), IS407 72-STV-11 Diesel Tank (PE1) (<10,000 gal. Storage Non-Applicable VOC), IS408 72-STV-12 Diesel Tank (PE2) (<10,000 gal. Storage Non-Applicable VOC), IS409 72-STV-13 Diesel Tank (Comp Shed) (<10,000 gal. Storage Non-Applicable VOC), IS410 72-STV-14 Diesel Tank (Fire Water Pump) (<10,000 gal. Storage Non-Applicable VOC), IS411 72-STV-15 WWTP Diesel Generator Tank (< 2000 gal. Storage of VOC; VP >=0.02 psia)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time 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.

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Subject Item: IS606 Parts Washer (Using 2 gal or more of solvents containing > 5% VOC content by weight)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall add solvent to a cold cleaning machine, or cause, suffer, allow, or permit the machine to be operated, unless the machine has a permanent, conspicuous label placed in a prominent location on the machine setting forth the applicable requirements of N.J.A.C. 7:27-16.6(j)(2). [N.J.A.C. 7:27-16.6(j)1ii]	None.	None.	None.
2	The machine shall be equipped with 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. [N.J.A.C. 7:27-16.6(j)1iii1]	None.	None.	None.
3	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. [N.J.A.C. 7:27-16.6(j)2i]	None.	None.	None.
4	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; [N.J.A.C. 7:27-16.6(j)2ii]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	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)2iii]	None.	None.	None.
6	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. [N.J.A.C. 7:27-16.6(j)2iv]	None.	None.	None.
7	Sponges, fabric, leather, paper products and other absorbent materials shall not be cleaned in the machine. [N.J.A.C. 7:27-16.6(j)2v]	None.	None.	None.
8	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 [N.J.A.C. 7:27-16.6(j)2vi]	None.	None.	None.
9	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 [N.J.A.C. 7:27-16.6(j)2vii]	None.	None.	None.
10	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)2vii]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Work area fans shall be located and positioned so that they do not blow across the opening of the degreaser unit [N.J.A.C. 7:27-16.6(j)2ix]	None.	None.	None.
12	A person shall not use, in a cold 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.
13	<p>A person who owns or operates a cold cleaning 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:</p> <p>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;</p> <p>ii. A list of VOC(s) and their concentration information in the solvent;</p> <p>iii. Information about each VOC listed pursuant ii above. A Material Safety Data Sheet (MSDS) may be used to satisfy this requirement;</p> <p>iv. The solvents product number assigned by the manufacturer; and</p> <p>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)4]</p>	None.	None.	None.
14	Solvent must contain less than 5% by weight of any combination of methylene chloride; perchloroethylene; 1,1,1-trichloroethane; carbon tetrachloride; and chloroform. [40 CFR 63.Subpart(T)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Degreaser shall have a maximum top opening of less than 6 square feet (0.56 square meters). [N.J.A.C. 7:27-22.1]	None.	None.	None.
16	Degreaser shall have a tank or vessel, the capacity of which is less than 100 gallons [N.J.A.C. 7:27-22.1]	None.	None.	None.

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Subject Item: GR1 MACT Subpart A

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	MACT Subpart A - Initial applicability determination; applicability after standard established; permit requirements; extensions; & notifications: These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.1]	None.	None.	None.
2	MACT Subpart A - Prohibited activities; compliance date; circumvention; severability: These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.4]	None.	None.	None.
3	MACT Subpart A - Construction/reconstruction applicability; applications; & approvals: These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.5]	None.	None.	None.
4	MACT Subpart A - Compliance with standards and maintenance requirements - applicability, compliance dates, and notifications: These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.6(a)(thru)(c)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	MACT Subpart A - Operation and maintenance requirements and SSM Plans: These requirements are detailed in the following requirements with a citation of 40 CFR 63.6(e). These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.6(e)]	None.	None.	None.
6	The owner or operator must operate and maintain any affected source, including associated Air Pollution Control (APC) equipment and monitoring equipment, at all times in a manner consistent with safety and good air pollution control practices for minimizing emissions. During periods of startup, shutdown or malfunction (even if not unique operating scenarios), the owner or operator shall follow the startup, shutdown and malfunction plan unless those efforts are inconsistent with safety or good air pollution control practices. During periods of startup, shutdown or malfunction, the owner or operator is not obligated to make further efforts to bring the emissions below that required to meet Normal - Steady State emission limits if those efforts are inconsistent with safety or good air pollution control practices. [40 CFR 63.6(e)(1)(i)]	None.	None.	None.
7	The owner or operator of an affected source must develop and implement a written startup, shutdown and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and air pollution control and monitoring equipment used to comply with the relevant standard. This plan must be developed by the source's compliance date for that relevant standard. [40 CFR 63.6(e)(3)(i)]	None.	Other: The owner or operator must maintain at the affected source a current startup, shutdown and malfunction plan and make the plan available upon request for inspection. In addition, the owner or operator must maintain the previous version of the plan for a period of 5 years after the revision of the plan.[40 CFR 63.6(e)(3)(v)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	During periods of startup, shutdown and malfunction, the owner or operator of an affected source must operate and maintain such source, including air pollution control and monitoring equipment, in accordance with the procedures specified in the startup, shutdown and malfunction plan developed under paragraph 40 CFR 63.6(e)(3)(i). [40 CFR 63.6(e)(3)(ii)]	None.	None.	None.
9	<p>When actions taken by the owner or operator during a startup, shutdown or malfunction are consistent with the startup, shutdown or malfunction plan, the owner or operator must keep records of actions taken during the startup, shutdown or malfunction, which are consistent with the procedures specified in the affected source's startup, shutdown and malfunction plan, including records of the occurrence and duration of each startup, shutdown or malfunction of operation and each malfunction of the air pollution control and monitoring equipment.</p> <p>When actions taken by the owner or operator during a startup, shutdown or malfunction are inconsistent with the startup, shutdown or malfunction plan, but the source does not exceed any applicable emission limitation in the relevant emission standard, the owner or operator must keep records of actions taken during the startup, shutdown or malfunction, which were inconsistent with the procedures specified in the affected source's startup, shutdown and malfunction plan, including records of the occurrence and duration of each startup, shutdown or malfunction of operation and each malfunction of the air pollution control and monitoring equipment. [40 CFR 63.6(e)(3)(iii)]</p>	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action and record. At minimum, the 2 most recent 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 63.10(b)(1)]	Submit a report: Semiannually beginning within 6 months of initial start-up. The startup, shutdown and malfunction report shall consist of a letter containing: name, title, and signature of the owner or operator and shall be submitted to the Administrator. If any malfunction occurred which may have caused any applicable emission limitation to be exceeded, include the number, duration, and a brief description for each type of malfunction. The report shall be delivered or postmarked by the 30th day following the end of each calendar half. The report shall only be required if a startup, shutdown or malfunction occurred during the reporting period. [40 CFR 63.10(d)(5)(i)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	When actions taken by the owner or operator during a startup, shutdown or malfunction are not consistent with the startup, shutdown or malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard, the owner or operator must record the actions taken for that event and must report such actions to the Administrator. [40 CFR 63.6(e)(3)(iv)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action and record. At minimum, the 2 most recent 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 63.10(b)(1)]	Submit a report: Upon occurrence of event. The report shall consist of a telephone call or facsimile and shall be submitted within 2 working days after commencing actions inconsistent with the plan, followed by a letter delivered or postmarked within 7 working days after the end of the event. [40 CFR 63.10(d)(5)(ii)]
11	If the startup, shutdown and malfunction plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the startup, shutdown and malfunction plan, the owner or operator of the affected source must revise the startup, shutdown and malfunction plan of such a source within 45 days after that event. [40 CFR 63.6(e)(3)(viii)]	None.	None.	None.
12	For compliance with 40 CFR 63 Subpart A, the nonopacity emission standards shall apply at all times except during periods of startup, shutdown and malfunction. An alternative standard may be used upon Department approval. These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.6(f)(and)(g)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Compliance with the opacity/visibility emission standards in 40 CFR 63 Subpart A. These requirements apply to the Benzyl Chloride Process, except for 40 CFR 63 Subpart NNNNN affected sources (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.6(h)]	None.	None.	None.
14	Extension of compliance with emission standards and presidential compliance exemption in 40 CFR 63 Subpart A. These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.6(i)(thru)(j)]	None.	None.	None.
15	Performance testing requirements in 40 CFR 63 Subpart A. These requirements are detailed in the following requirements with a citation of 40 CFR 63.7. These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.7]	None.	None.	None.
16	The owner or operator of an affected source required to do performance testing under a relevant standard shall conduct a performance test. Each performance test shall consist of three (3) separate runs and the arithmetic mean of the results of the three runs shall apply as specified in 40 CFR 63.7(e)(3). [40 CFR 63.7(a)(2)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action and record. At minimum, the 2 most recent 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 63.10(b)(1)]	Conduct a performance test: As per the approved schedule. Within 180 days of the compliance date of the source. [40 CFR 63.7(a)(2)]

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**New Jersey Department of Environmental Protection
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The owner or operator of an affected source must notify the Administrator in writing before the performance test is scheduled. [40 CFR 63.7(b)(1)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action and record. At minimum, the 2 most recent 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 63.10(b)(1)]	Submit notification: As per the approved schedule. At least 60 days before the performance test is initially scheduled. The owner or operator shall notify the Administrator as soon as practicable and without delay prior to the scheduled test and specify the date when the performance test is rescheduled, if the owner or operator is unable to conduct the performance test as initially scheduled. [40 CFR 63.7(b)]
18	The owner or operator of an affected source shall develop, before conducting a required performance test and, if requested by the Administrator, shall submit a site-specific plan to the Administrator for approval. The test plan shall include: test program summary, test schedule, data quality objectives, and an internal and external quality assurance (QA) program. [40 CFR 63.7(c)(2)(i)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action and record. At minimum, the 2 most recent 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 63.10(b)(1)]	Submit a plan: As per the approved schedule. The site-specific test plan shall be submitted upon the Administrator's request at least 60 calendar days before the performance test is scheduled. [40 CFR 63.7(c)(2)(iv)]
19	The owner or operator shall conduct the performance test under such conditions as the Administrator specifies based on representative performance. Upon request, the owner or operator shall make available to the Administrator such records. [40 CFR 63.7(e)(1)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	The owner or operator of an affected source shall report the results of the performance test to the Administrator. [40 CFR 63.7(g)(1)]	None.	None.	Submit a report: As per the approved schedule. The owner or operator shall report the results of the performance test before the close of business on the 60th day following the completion of performance test. [40 CFR 63.10(d)(2)]
21	Monitoring requirements in 40 CFR 63 Subpart A. These requirements are detailed in the following requirements with a citation of 40 CFR 63.8. These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.8]	None.	None.	None.
22	The owner or operator of an affected source shall conduct monitoring as specified in the relevant standard unless otherwise specified by the Administrator. [40 CFR 63.8(b)(1)]	None.	None.	None.
23	If the relevant standard is a mass emission standard and the emissions are released to the atmosphere through more than one point, the owner or operator must install an applicable continuous monitoring system (CMS) at each emission point. [40 CFR 63.8(b)(2)(ii)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	The owner or operator of an affected source must maintain and operate each continuous monitoring system (CMS) as specified in 40 CFR 63.6(e)(1). [40 CFR 63.8(c)(1)(i)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action and record. At minimum, the 2 most recent 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 63.10(b)(1)]	Other (provide description): Other. The owner or operator of an affected source required to install a CMS by a relevant standard shall submit an excess emissions and continuous monitoring system performance report and/or a summary report to the Administrator semiannually, except when More frequent reporting is specifically required by a relevant standard or if the Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source. [40 CFR 63.10(e)(3)]
25	The owner or operator of an affected source must keep the necessary parts for routine repairs of the affected continuous monitoring system (CMS) equipment readily available. [40 CFR 63.8(c)(1)(ii)]	None.	None.	None.
26	The owner or operator of an affected source must develop and implement a written startup, shutdown, and malfunction plan for continuous monitoring systems (CMS) as specified in 40 CFR 63.6(e)(3). [40 CFR 63.8(c)(1)(iii)]	None.	None.	None.
27	All continuous monitoring systems (CMS) must be installed such that representative measures of emissions or process parameters from the affected source are obtained. In addition all CEMS must be located according to the procedures in the applicable performance specifications. [40 CFR 63.8(c)(2)(i)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	The continuous monitoring systems (CMS), including continuous opacity monitoring systems (COMS) and CEMS, shall be operated at all times except for: breakdowns, out of control periods, repairs, maintenance, calibration checks, and zero and high level calibration drift adjustments. The CMS shall meet minimum frequency of operation requirements as described in 40 CFR 63.8(c)(4)(i) and (ii). [40 CFR 63.8(c)(4)]	None.	None.	None.
29	The owner or operator of a continuous monitoring system (CMS) that is not a continuous parameter monitoring system (CPMS) must check the zero (low level) and high level calibration drifts at least once daily. The zero (low level) and high level calibrations drifts must be adjusted, at minimum, whenever the 24-hour zero (low level) drift exceeds two times the limits. The system shall allow the amount of excess zero (low level) and high-level drift measured at 24-hour interval checks to be recorded and quantified. The CPMS must be calibrated prior to use and must be checked daily. [40 CFR 63.8(c)(6)]	None.	None.	None.
30	When a continuous monitoring system (CMS) is out of control, the owner or operator of the affected source shall take corrective action and then conduct retesting. [40 CFR 63.8(c)(7)(ii)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	The owner or operator of a continuous monitoring system (CMS) shall report all out-of-control periods as required in 40 CFR 63.10(e)(3). [40 CFR 63.8(c)(8)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain records of all CMS malfunction or inoperative periods (including out of control periods) and all maintenance and adjustments performed on the CMS as specified in 40 CFR 63.10(b) and (c). The reports shall be maintained for at least 5 years following the date of each record. At minimum, the 2 most recent 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 63.10(b)] &. [40 CFR 63.10(c)]	Other (provide description): Other. The owner or operator of an affected source required to install a CMS by a relevant standard shall submit an excess emissions and continuous monitoring system performance report and/or a summary report to the Administrator semiannually, except when More frequent reporting is specifically required by a relevant standard or if the Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source. [40 CFR 63.10(e)(3)]
32	The owner or operator of an affected source shall notify the Administrator that the source becomes subject to a relevant standard. The notification shall include the information as specified in 40 CFR 63.9(b)(2). [40 CFR 63.9(b)(2)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action and record. At minimum, the 2 most recent 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 63.10(b)(1)]	Submit notification: As per the approved schedule. Within 120 calendar days after the source becomes subject to the relevant standard, if initial startup of the affected source is before the effective date of the standard. [40 CFR 63.9(b)(2)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	The owner or operator of a new or reconstructed major affected source must provide a notification of intention to construct a new major-emitting affected source, or reconstruct a major source that becomes a major-emitting affected source, with the application for approval of construction or reconstruction as specified in 40 CFR 63.5(d)(1)(i). [40 CFR 63.9(b)(4)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action and record. At minimum, the 2 most recent 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 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification shall be submitted as soon as practicable before actual construction or reconstruction begins, but not later than 60 days after the effective date of a relevant standard. [40 CFR 63.5(d)(1)(i)]
34	The owner or operator of a new or reconstructed affected source must provide the following information to the Administrator: notification of intention to construct a new affected source, reconstruct an affected source, or reconstruct a source such that the source becomes an affected source; notification of the actual date of startup of the source shall be delivered or postmarked within 15 calendar days after that date. [40 CFR 63.9(b)(5)]	None.	Recordkeeping by no recordkeeping method required upon occurrence of event. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action and record. At minimum, the 2 most recent 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 63.10(b)(1)]	Submit notification: Upon occurrence of event. [40 CFR 63.9(b)(5)]
35	Notification requirements in 40 CFR 63 Subpart A. These requirements are detailed in the following requirements with a citation of 40 CFR 63.9. These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.9]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	For compliance with 40 CFR 63 Subpart A, the owner or operator of a new or reconstructed affected source must provide the following information to the Administrator: notification of intention to construct a new affected source, reconstruct an affected source, or reconstruct a source such that the source becomes an affected source: notification of the actual date of startup of the source shall be delivered or postmarked within 15 calendar days after that date. [40 CFR 63.9(b)(5)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action and record. At a minimum, the 2 most recent 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 63.10(b)(1)]	Submit notification: Upon occurrence of event. [40 CFR 63.9(b)(5)]
37	For compliance with 40 CFR 63 Subpart A, the owner or operator of an affected source before a Title V permit has been issued, shall submit to the Administrator a Notification of Compliance Status. The notification shall list all the information as specified in 40 CFR 63.9(h)(2)(i) and be signed by a responsible official. [40 CFR 63.9(h)(2)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained for at least 5 years following the date of each record. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification must be sent before the close of business on the 60th day following the completion of the relevant compliance demonstration. [40 CFR 63.9(h)(2)(ii)]
38	The owner or operator of an affected source before a Title V permit has been issued, shall submit to the Administrator a notification of compliance status. The notification shall list all the information as specified in 40 CFR 63.9(h)(2)(i) and be signed by a responsible official. [40 CFR 63.9(h)(2)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained for at least 5 years following the date of each record. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification must be sent before the close of business on the 60th day following the completion of the relevant compliance demonstration. [40 CFR 63.9(h)(2)(ii)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
39	Recordkeeping and reporting requirements in 40 CFR 63 Subpart A. These requirements are detailed in the following requirements with a citation of 40 CFR 63.10. These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.10]	None.	None.	None.
40	Control device and work practice requirements in 40 CFR 63 Subpart A. These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.11]	None.	None.	None.
41	Performance track provisions in 40 CFR 63 Subpart A. These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1), the Phosphate Ester Process (U3), and the Benzyl Phthalate Process (U4). [40 CFR 63.16]	None.	None.	None.

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Subject Item: GR2 MACT Subpart F

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	MACT Subpart F applicability, designation of source and definitions. These requirements apply to the Benzyl Chloride Process (IS3, IS4, and U1) because the facility manufactures benzyl chloride (Table 1 of Subpart F of Part 63), uses as a reactant or manufactures as a product/co-product benzyl chloride and toluene (Table 2 to Subpart F of Part 63), and the facility is a major source as defined in section 112(a) of the Act. Benzyl Chloride is Group 2 with TRE greater than 4.0 for affected process vents; Group 2 or exempt for all affected storage vessels, transfer operations, and wastewater; exempt for heat exchangers; and affected for leak detection and repair (LDAR) and maintenance wastewater. [40 CFR 63.100(and)(101)]	None.	None.	None.
2	General standards: Owners and operators of sources subject to Subpart F shall comply with the requirements of Subparts G and H. These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1). [40 CFR 63.102]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The provisions of Subpart F and G shall apply at all times except during periods of start-up, shutdown, malfunction (SSM), or non-operation resulting in the cessation of emissions. An emission point is required to comply if its emissions are unaffected by the start-up, shutdown, malfunction, or non-operation of another portion of the chemical manufacturing process unit. The Benzyl Chloride Process contains no Group 1 sources or HON control devices. SSM events only affect equipment leak (LDAR) components and maintenance wastewater streams. [40 CFR 63.102(a)(1)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Records of the occurrence and duration of each start-up, shutdown, and malfunction or operation of process equipment or of air pollution control equipment or continuous monitoring systems used to comply with subpart F and G during which excess emissions occur. The facility has no Group 1 HON sources or control devices. The SSM exemption impacts LDAR monitoring (changing the HAP composition of LDAR equipment during SSM events) and maintenance wastewater stream compliance (malfunction events during maintenance that affect these streams). Records are required to be kept for 5 years. [40 CFR 63.103(c)]	Submit a report: As per the approved schedule. All reports required under subparts F and G shall be sent to the permit Administrator except that requests for permission to use an alternative means of compliance as provided for in 63.102(b) and application for approval of a nominal efficiency as provided for in 63.150(i)(1) through (i)(6) of subpart G shall be submitted to the Director of the EPA Office of Quality Planning and Standards rather than the permit Administrator. [40 CFR 63.103(d)]
4	The provisions of Subpart H shall apply at all times except during periods of start-up, shutdown, malfunction, or non-operation in which the lines are drained and depressurized resulting in the cessation of emissions. [40 CFR 63.102(a)(2)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Records of the occurrence and duration of each start-up, shutdown, and malfunction or operation of process equipment or of air pollution control equipment or continuous monitoring systems used to comply with subpart H during which excess emissions occur. Records of SSM events impacting LDAR monitoring (changing the HAP composition of LDAR equipment during SSM events) are required to be kept for 5 years. [40 CFR 63.103(c)(2)(i)]	Submit a report: As per the approved schedule. All reports required under subpart H shall be sent to the permit Administrator. [40 CFR 63.103(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Items of equipment that are required or utilized for compliance with Subpart F, G, or H shall not be shut down during times when emissions are being routed to such items of equipment, if the shutdown would contravene requirements of subpart F, G, or H applicable to such items of equipment. An emission point is required to comply if its emissions are unaffected by the start-up, shutdown, malfunction, or non-operation of another portion of the chemical manufacturing process unit. This requirement only applies to LDAR components and maintenance wastewater. [40 CFR 63.102(a)(3)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Records of the occurrence and duration of each start-up, shutdown, and malfunction or operation of process equipment or of air pollution control equipment or continuous monitoring systems used to comply with subpart F, G and H during which excess emissions occur. The facility has no Group 1 HON sources or control devices. The SSM exemption impacts LDAR monitoring (changing the HAP composition of LDAR equipment during SSM events) and maintenance wastewater stream compliance (malfunction events during maintenance that affect these streams). Records are required to be kept for 5 years. [40 CFR 63.103(c)(2)(i)]	None.
6	During start-ups, shutdowns, and malfunctions when the requirements of Subpart F, G, or H do not apply, to the extent reasonably available, measures to prevent or minimize excess emissions shall be implemented to the extent practical. The measures to be taken shall be identified in the applicable start-up, shutdown, and malfunction plan, and may include, but are not limited to, air pollution control technologies, recovery technologies, work practices, pollution prevention, monitoring, and/or changes in the manner of operation of the source. [40 CFR 63.102(a)(4)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Records of the occurrence and duration of each start-up, shutdown, and malfunction or operation of process equipment or of air pollution control equipment or continuous monitoring systems used to comply with subpart F, G and H during which excess emissions occur. The facility has no Group 1 HON sources or control devices. The SSM exemption impacts LDAR monitoring (changing the HAP composition of LDAR equipment during SSM events) and maintenance wastewater stream compliance (malfunction events during maintenance that affect these streams). Records are required to be kept for 5 years. [40 CFR 63.103(c)(2)(ii)]	Submit a report: As per the approved schedule. All reports required under subparts F, G and H shall be sent to the permit Administrator. [40 CFR 63.103(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Each owner or operator of a source subject to 40 CFR 63 Subpart F shall obtain a permit under 40 CFR part 70 or 71 from the appropriate permitting authority by the required data. Polymer Additives Inc. in Bridgeport, NJ was issued a Title V permit (this permit) under 40 CFR Part 70 by the New Jersey Department of Environmental Protection on July 18, 2005. The requirements of 40 CFR 63 Subparts F, G and H are Federally enforceable under section 112 of the Act. [40 CFR 63 102(c)] & [40 CFR 63.102(d)]	None.	None.	None.
8	General compliance, reporting and recordkeeping provisions in 40 CFR 63 Subpart F. Table 3 of Subpart F specifies the provisions of subpart A that apply and those that do not apply to the owners and operators of sources subject to subparts F, G, and H. These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1). [40 CFR 63.103(a)]	None.	None.	None.
9	Initial performance tests and initial compliance determinations shall be required only as specified in subparts G and H of 40 CFR 63. There are no Group 1 sources or HON control devices in the Benzyl Chloride Process, therefore this requirement is not applicable. [40 CFR 63.103(b)]	None.	None.	None.
10	Copies of all applicable records required by subparts F, G, and H shall be maintained for at least 5 years except for those records for which subparts G or H require records to be maintained for a time period different than 5 years. [40 CFR 63.103(c)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. All applicable records shall be readily accessible. The most recent 6 months of records shall be retained on-site, or shall be accessible from a central location by computer or other means that provides access within 2 hours after a request. [40 CFR 63.103(c)(1)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Heat exchange system requirements in 40 CFR 63 Subpart F. There are no affected heat exchangers in the Benzyl Chloride Process (IS3, IS4 and U1). [40 CFR 63.104(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Retain the following records identified in paragraphs 40 CFR 63(104)(f)(1)(i) through (f)(1)(iv): Monitoring date and data indicating leak status; Dates and efforts to repair leaks; Method or procedure used to confirm repair of leak and date repair confirmed; and Delay of repair report information in the next semi-annual periodic report. [40 CFR 63.104(f)]	Submit a report: As per the approved schedule. Submit delay of repair information in the next semi-annual periodic report. [40 CFR 63.104(f)]
12	For compliance with 40 CFR 63 Subpart F, the owner or operator shall sample and analyze cooling water from the entrance and exit of each heat exchanger system for total HAPs, VOCs, organic carbon, one or more speciated HAPs, or other representative substances to detect the presence of leaks in the heat exchanger system. This is not applicable since there are no affected heat exchangers. [40 CFR 63.104(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	For compliance with 40 CFR 63 Subpart F, the owner or operator shall develop and implement a monitoring plan for surrogate parameters such as ion specific electrode monitoring, pH, conductivity or other representative indicators in accordance with the provisions of 40 CFR 63.104(c)(1) through (c)(3). If a substantial leak is detected using methods other than those in the monitoring plan, the monitoring plan shall be revised within 180 days after discovery of the leak. The current plan shall be maintained on site or at a central location from which it can be accessed within 2 hours after a request. A plan that has been superseded shall be retained for 5 years after the date of its creation. This is not applicable since there are no affected heat exchangers. [40 CFR 63.104(c)]	None.	None.	None.
14	For compliance with 40 CFR 63 Subpart F, a leak shall be repaired as soon as possible but not later than 45 calendar days after receiving results of monitoring tests indicating a leak unless it is demonstrated that the results are due to a condition other than a leak. Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 days after the repair or start-up. This is not applicable since there are no affected heat exchangers. [40 CFR 63.104(d)]	None.	None.	None.
15	For compliance with 40 CFR 63 Subpart F, leak repair may be delayed if the equipment is isolated from the process or if the repair is technically infeasible without a shutdown and if the condition in 40 CFR 63.104(e)(1) and (e)(2) are met. This is not applicable since there are no affected heat exchangers. [40 CFR 63.104(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Maintenance wastewater requirements in 40 CFR 63 Subpart F. Affected sources shall comply with the requirements in 63.105(b) through (e). These requirements apply since the maintenance wastewater streams in the Benzyl Chloride Process (IS3, IS4 and U1) contain benzyl chloride, toluene and propylene oxide organic HAPs listed in Table 9 of Subpart G. [40 CFR 63.105(a)]	None.	None.	None.
17	For compliance with 40 CFR 63 Subpart F, a description of maintenance procedures shall be prepared for wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns. The descriptions shall contain the information required by 40 CFR 63.105(b)(1) through (b)(3). The maintenance wastewater procedures may be contained in the Maintenance Wastewater Plan which is part of the Start-up, Shut-down, Malfunction Plan. [40 CFR 63.105(b)]	None.	Other: Maintain records of the information required in 63.6(e)(3) of Subpart A. Maintain a copy of the current Maintenance Wastewater Plan and copies of all archived plans for a period of 5 years after plan has been superceded.[40 CFR 63.6(e)(3)].	None.
18	For compliance with 40 CFR 63 Subpart F, the information required by 40 CFR 63.105(b) shall be modified and updated as required following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. [40 CFR 63.105(c)]	None.	Other: Maintain records of the information required in 63.6(e)(3) of Subpart A. Maintain a copy of the current Maintenance Wastewater Plan and copies of all archived plans for a period of 5 years after plan has been superceded.[40 CFR 63.6(e)(3)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	The procedures described in 40 CFR Subpart F, 63.105(b) and (c), shall be implemented as part of the start-up, shutdown, and malfunction plan required under 40 CFR 63.6(e)(3). [40 CFR 63.105(d)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shutdown, and malfunction plan required under 40 CFR 63.6(e)(3). The Maintenance Wastewater Plan (MWWP) for the Polymer Additives Inc. facility becomes the SSMP since there are no Group 1 sources or HON control devices affected by SSM events. [40 CFR 63.105(e)]	None.
20	The identification of Process Vents shall use the criteria specified in 53.107 to determine whether there are any process vents associated with an air oxidation reactor, distillation unit, or reactor that is a source subject to Subpart F. [40 CFR 63.107]	None.	None.	None.

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Subject Item: GR3 MACT Subpart G

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Applicability of and definitions for 40 CFR 63 Subpart G. These requirements apply to the Benzyl Chloride Process (IS3, IS4, and U1) because the process is subject to Subpart F. Subpart G applies to all process vents, storage vessels, transfer racks, wastewater streams, and in-process equipment (certain liquid streams in open systems within a chemical manufacturing process unit (CMPU). Benzyl Chloride is Group 2 with TRE greater than 4.0 for affected process vents; Group 2 or exempt for all affected storage vessels, transfer operations, and wastewater; and affected for leak detection and repair (LDAR). [40 CFR 63.110(and)(111)]	None.	None.	None.
2	Section 63.112 establishes emission standards or source provisions (sections 63.113 through 63.149) for compliance with 40 CFR 63 Subpart G. The facility has elected to demonstrate compliance with these requirements for the Benzyl Chloride Process (IS3, IS4 and U1) by complying with the source provisions. [40 CFR 63.112]	None.	None.	None.
3	Process vent provisions - reference control technology in 40 CFR 63 Subpart G. These requirements do not apply since there are no Group 1 Benzyl Chloride Process (IS3, IS4 and U1) vents. [40 CFR 63.113]			

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	For compliance with 40 CFR 63 Subpart G, the owner or operator of a Group 1 process vent (vent stream flow rate is greater than or equal to 0.005 standard cubic meters per minute, the total organic HAP (OHAP) concentration is greater than or equal to 50 ppmv, and the TRE index is less than or equal to 1.0) shall 1) reduce emissions of OHAP using a flare, or 2) reduce emissions of total OHAP by 98% by weight or to a concentration of 20 ppmv whichever is less stringent, or 3) achieve and maintain a TRE index value greater than 1.0 at the outlet of the final recovery device, or prior to release of the vent stream to the atmosphere if no recovery device is present. If the TRE index value is greater than 1.0, the process vent shall comply with the provisions for a Group 2 process vent (40 CFR 63.113(d) or (e)). This requirement is not applicable since there are no Group 1 process vents in the Benzyl Chloride Process. [40 CFR 63.113(a)(thru)(c)]	Monitored by calculations once initially. The owner or operator shall determine TRE in accordance with the specifications in 40 CFR 63.115. [40 CFR 63.113(a)(3)]	Other: The owner or operator shall record and keep the data required by 40 CFR 63.117(a)(7). These data shall be included in the Notification of Compliance Status (NOCS). If any TRE determinations are updated after the NOCS has been submitted, the data shall be reported in the next periodic report as specified in 40 CFR 63.152(c).[40 CFR 63.117(a)].	Submit notification: Once initially and following each update. The owner or operator shall include the data in paragraphs 40 CFR 63.117(a)(4) through (a)(8) in the Notification of Compliance Status as specified in 40 CFR 63.152(b). If any subsequent TRE determinations are conducted after the NOCS has been submitted, the data in paragraphs 40 CFR 63.117(a)(4) through (a)(8) shall be included in the next periodic report as specified in 40 CFR 63.152(c). [40 CFR 63.117(a)]
5	For compliance with 40 CFR 63 Subpart G, the owner or operator of a Group 2 process vent having a flow rate greater than or equal to 0.005 standard cubic meters per minute, a HAP concentration greater than or equal to 50 ppmv, and a TRE index value greater than 1.0 but less than or equal to 4.0 shall maintain a TRE index value greater than 1.0 and shall comply with the monitoring and recovery device parameters in 63.114(b) or (c), the TRE index calculations of 63.115, and the applicable reporting (63.117) and recordkeeping (63.118) provisions. This requirement is not applicable since there are no Group 2 process vents in the Benzyl Chloride Process in this TRE index range. [40 CFR 63.113(d)]	Other: Install either an organic monitoring device equipped with a continuous recorder or the monitoring equipment specified in 63.114(b)(1), (b)(2), or (b)(3), depending on the type of recovery device used.[40 CFR 63.114(b)(or)(c)].	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall record and keep the data required by 40 CFR 63.117(a)(7). These data shall be included in the Notification of Compliance Status (NOCS). If any subsequent TRE determinations are conducted after the NOCS has been submitted, the data shall be reported in the next periodic report as specified in 40 CFR 63.152(c). [40 CFR 63.117(a)]	Submit a report: Once initially and following each update. The owner or operator shall include the data in paragraphs 40 CFR 63.117(a)(4) through (a)(8) in the Notification of Compliance Status as specified in 40 CFR 63.152(b). If any subsequent TRE determinations are conducted after the NOCS has been submitted, the data in paragraphs 40 CFR 63.117(a)(4) through (a)(8) shall be included in the next periodic report as specified in 40 CFR 63.152(c). [40 CFR 63.117(a)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	For compliance with 40 CFR 63 Subpart G, the owner or operator of a Group 2 process vent with a TRE > 4 index value shall maintain a TRE index value greater than 4.0, comply with the provisions for calculations of a TRE index value in 63.115 and the applicable reporting and recordkeeping provisions in 63.117(b) and 63.118(c) and (h). The facility has elected to comply with this option for the Group 2 process vents. [40 CFR 63.113(e)]	Monitored by calculations once initially and whenever a process change, as defined in 63.115(e), is made that requires an update of the TRE index. The owner or operator shall determine the TRE index in accordance with the specifications in 40 CFR 63.115. [40 CFR 63.113(e)]	Other: The owner or operator shall maintain records and submit as part of the NOCS measurements, engineering assessments, and calculations performed to determine the TRE index value of the vent stream. Documentation of engineering assessments shall include all data, assumptions, and procedures used for the engineering assessments. [40 CFR 63.118(c), (f), (g), (h), and (k)] and [40 CFR 63.117(b)].	Submit notification: Once initially and following each update. The owner or operator shall include the data in paragraphs 40 CFR 63.117(b) and in 40 CFR 63.118(c) in the Notification of Compliance Status as specified in 40 CFR 63.152(b). If any subsequent TRE determinations are conducted after the NOCS has been submitted that result in an index value greater than 1.0 but less than or equal to 4.0, the owner or operator shall include the data in paragraphs 40 CFR 63.118(h) in the next Periodic Report as specified in 40 CFR 63.152(c). [40 CFR 63.118(c), (f), (g), (h), (k)] and. [40 CFR 63.117(b)]
7	40 CFR 63 Subpart G flowrate < 0.005 m3/min requirement. The owner or operator shall maintain a flow rate less than 0.005 standard cubic meters per minute and shall comply with the group determination procedures of 40 CFR 63.115(a), (b), and (e) and the applicable reporting and recordkeeping provisions of 40 CFR 63.117(c) and 40 CFR 63.118(d) and (i). The facility has elected to maintain the TRE index > 4 for the Group 2 process vents. [40 CFR 63.113(f)]	Monitored by gas flow rate instrument once initially. The owner or operator shall determine flow rate in accordance with the specifications in 40 CFR 63.115(a), (b), and (e). [40 CFR 63.113(f)]	Other: The owner or operator shall record and keep the data required by 40 CFR 63.117(c) and 40 CFR 63.118(d) and (i). These data shall be included in the Notice of Compliance Status. [40 CFR 63.117(c)].	Submit notification: Once initially and following each update. The owner or operator shall include the data in paragraphs 40 CFR 63.117(c) and in 40 CFR 63.118(d) and (i) in the Notification of Compliance Status as specified in 40 CFR 63.152(b). If any subsequent performance tests are conducted after the NOCS has been submitted, the owner or operator shall include the data in paragraphs 40 CFR 63.118(d) and (i) in the next Periodic Report as specified in 40 CFR 63.157(c). [40 CFR 63.117(c)]
8	40 CFR 63 Subpart G HAPs < 50 ppmv requirement. The owner or operator shall maintain a concentration less than 50 parts per million by volume and shall comply with the group determination procedures of 40 CFR 63.115(a), (c), and (e) and the applicable reporting and recordkeeping provisions of 40 CFR 63.117(d) and 40 CFR 63.118(e) and (j). The facility has elected to maintain the TRE index > 4 for the Group 2 process vents. [40 CFR 63.113(g)]	Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. The owner or operator shall determine concentration in accordance with the specifications in 40 CFR 63.115(a), (c), and (e). [40 CFR 63.113(g)]	Recordkeeping by other recordkeeping method (provide description) once initially. The owner or operator shall record and keep the data required by 40 CFR 63.117(d) and 40 CFR 63.118(e) and (j). These data shall be included in the Notification of Compliance Status. [40 CFR 63.117(d)]	Submit notification: Once initially and following each update. The owner or operator shall include the data in paragraphs 40 CFR 63.117(d) and in 40 CFR 63.118(e) and (j) in the Notification of Compliance Status as specified in 40 CFR 63.152(b). If any flow rate measurements are conducted after the NOCS has been submitted, the owner or operator shall include the data in paragraphs 40 CFR 63.118(e) and (j) in the next Periodic Report as specified in 40 CFR 63.157(c). [40 CFR 63.117(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	40 CFR 63 Subpart G Process vent provisions - monitoring requirements for Group 1 sources and Group 2 sources with a TRE index greater than 1 and \leq 4.0. There are no Group 1 or Group 2 (TRE >1 and \leq 4.0) Benzyl Chloride Process vents (IS3, IS4 and U1) at the facility. [40 CFR 63.114]	None.	None.	None.
10	40 CFR 63 Subpart G Process vent provisions - methods and procedures for process vent group determinations. These requirements apply to the Benzyl Chloride Process vents (IS3, IS4 and U1) during determination of initial applicability and during applicability update determinations whenever process changes are made that could reasonably be expected to change a Group 2 vent to a Group 1 vent. [40 CFR 63.115]	Monitored by calculations once initially and whenever a process change, as defined in 63.115(e), is made that requires an update of the applicability determinations. The owner or operator shall determine the TRE index in accordance with the specifications in 40 CFR 63.115. [40 CFR 63.115]	Other: The owner or operator shall maintain records including measurements, engineering assessments, and calculations performed to determine the TRE index value of the vent stream. Documentation of engineering assessments shall include all data, assumptions, and procedures used for the engineering assessments. [40 CFR 63.118(c), (f), (g), (h), and (k)] and [40 CFR 63.117(b)].	Submit a report: As per the approved schedule. If any subsequent TRE determinations are conducted after the NOCS has been submitted that result in an index value greater than 1.0 but less than or equal to 4.0, the owner or operator shall include the data in paragraphs 40 CFR 63.118(h) in the next Periodic Report as specified in 40 CFR 63.152(c). [40 CFR 63.118(c), (f), (g), (h), (k)] and. [40 CFR 63.117(b)]
11	40 CFR 63 Subpart G Process vent provisions - performance test methods and procedures to determine compliance for Group 1 process sources. There are no Group 1 Benzyl Chloride Process vents (IS3, IS4 and U1) at the facility. [40 CFR 63.116]	None.	None.	None.
12	40 CFR 63 Subpart G Process vent provisions - recordkeeping and reporting requirements for Group 1 or Group 2 process vents with a TRE index value greater than 1.0 but less than or equal to 4.0 shall comply with 63.117(a). There are no Group 1 or Group 2 (TRE >1 and \leq 4.0) Benzyl Chloride Process vents (IS3, IS4 and U1) at the facility. [40 CFR 63.117]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	40 CFR 63 Subpart G Process vent provisions - periodic reporting and recordkeeping requirements for Group 1 process vents shall comply with the recordkeeping and reporting requirements in 63.118(a) and (b). There are no Group 1 Benzyl Chloride Process vents (IS3, IS4 and U1) at the facility. [40 CFR 63.118(a)(and)(b)]	None.	None.	None.
14	40 CFR 63 Subpart G Storage Vessel provisions - reference control technology. The requirements in 63.119 apply to Group 1 storage vessels. There are no Group 1 storage vessels at the facility. The Group 2 Benzyl Chloride Process (IS3, IS4 and U1) storage vessel requirements consist of complying with the recordkeeping requirements in 63.123(a) and are not required to comply with any other provisions in 63.119 through 63.123 of Subpart G. [40 CFR 63.119]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Each owner or operator of a Group 1 or Group 2 storage vessel shall keep readily accessible records showing the dimensions of each storage vessel and an analysis showing the capacity of each storage vessel. The records shall be kept as long as each storage vessel retains Group 1 or Group 2 status and is in operation. For each Group 2 storage vessel, the owner or operator is not required to comply with any other provisions of 40 CFR 63.119 through 63.123, unless such vessel is part of an emission average as described in 40 CFR 63.150. [40 CFR 63.123(a)]	None.
15	40 CFR 63 Subpart G Transfer operations provisions - reference control technology. The requirements in 63.126 apply to Group 1 transfer racks. There are no Group 1 transfer racks at the facility. The Group 2 Benzyl Chloride transfer rack (IS3, IS4 and U1) requirements consist of complying with the recordkeeping requirements in 63.130(f). No other provisions for transfer racks in sections 63.126 through 63.130 apply to the Group 2 transfer racks. [40 CFR 63.126(c)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Each owner or operator of a Group 1 or Group 2 transfer rack shall record, update annually, and maintain the following information in a readily accessible location on site: 1) an analysis demonstrating the design and actual throughput of the transfer rack; 2) an analysis documenting the weight-percent organic HAPs in the liquid loaded. (e.g. material and engineering calculations); and 3) an analysis documenting the annual rack weighted average HAP partial pressure of the transfer rack. [40 CFR 63.130(f)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	40 CFR 63 Subpart G Process wastewater provisions - general. The requirements in 63.132 apply to Group 1 wastewater streams. There are no Group 1 wastewater streams at the facility. The Group 2 Benzyl Chloride wastewater stream (IS3, IS4 and U1) requirements consist of complying with the test methods and procedures for determining applicability and Group 1/Group2 determinations in 63.144 and the recordkeeping and reporting requirements in 63.146(b)(1) for the Notification of Compliance Status Report and in 63.147(b)(8) for ongoing recordkeeping. No other provisions for process wastewater in sections 63.132 through 63.140, 63.143, 63.145, 63.146, and 63.147 apply to Group 2 process wastewater streams. [40 CFR 63.132]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. For Group 2 wastewater streams keep in a readily accessible location the following records: 1) process unit identification and description of the process unit; 2) stream identification code; 3) for existing sources, concentration of Table 9 compound(s) in parts per million, by weight. For new sources, concentration of Table 8 and/or Table 9 compound(s) in parts per million, by weight. Include documentation of the methodology used to determine concentration. 4) flow rate in liter per minute. [40 CFR 63.147(b)]	Submit notification: Once initially and following each change in group status. For Group 2 wastewater streams submit in the Notification of Compliance Status Report the following information: 1) process unit identification and description of the process unit; 2) stream identification code; 3) for existing sources, concentration of Table 9 compound(s) in parts per million, by weight. For new sources, concentration of Table 8 and/or Table 9 compound(s) in parts per million, by weight. Include documentation of the methodology used to determine concentration. 4) flow rate in liter per minute. Changes in wastewater stream group status shall be reported in semi-annual HON reports. [40 CFR 63.146(b)]
17	40 CFR 63 Subpart G Process wastewater provisions - test methods and procedures for determining applicability and Group 1/Group 2 determinations (determining which wastewater streams require control). The test methods and the procedures contained in 63.144 shall be utilized to determine which wastewater streams require control for Table 8 and/or Table 9 compounds. These test methods and procedures apply to the Benzyl Chloride Process wastewater streams. [40 CFR 63.144]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. For Group 2 wastewater streams keep in a readily accessible location the following records: 1) process unit identification and description of the process unit; 2) stream identification code; 3) for existing sources, concentration of Table 9 compound(s) in parts per million, by weight. For new sources, concentration of Table 8 and/or Table 9 compound(s) in parts per million, by weight. Include documentation of the methodology used to determine concentration. 4) flow rate in liter per minute. [40 CFR 63.147(b)(and)(f)]	Submit notification: Once initially and following each change in group status. For Group 2 wastewater streams submit in the Notification of Compliance Status Report the following information: 1) process unit identification and description of the process unit; 2) stream identification code; 3) for existing sources, concentration of Table 9 compound(s) in parts per million, by weight. For new sources, concentration of Table 8 and/or Table 9 compound(s) in parts per million, by weight. Include documentation of the methodology used to determine concentration. 4) flow rate in liter per minute. Changes in wastewater stream group status shall be reported in semi-annual HON reports. [40 CFR 63.146(b)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	40 CFR 63 Subpart G Leak inspection provisions. Each vapor collection system and closed-vent system shall be inspected according to the procedures and schedule specified in 63.148(b)(1) and (b)(2) and each fixed roof, cover, and enclosure shall be inspected according to the procedures and schedule in 63.148(b)(3). These requirements do not apply to the Benzyl Chloride Process (IS3, IS4 and U1) since there are no vapor collection systems, closed-vent systems, fixed roofs, covers, or enclosures in the process. [40 CFR 63.148]	None.	None.	None.
19	For compliance with 40 CFR 63 Subpart G, the owner or operator of Group 1 HON wastewater streams shall comply with the control requirements for certain liquid streams in open systems within a chemical manufacturing process unit. These requirements do not apply to the Benzyl Chloride Process (IS3, IS4 and U1) because the process contains no Group 1 wastewater streams. [40 CFR 63.149]	None.	None.	None.
20	As specified in 40 CFR 63 Subpart G, the emissions averaging provisions apply to owners or operators of existing sources who seek to comply with the emission standard in 63.112(a) by using emissions averaging according to 63.112(f) rather than following the provisions of 63.113 through 63.148. These requirements generally apply to the Benzyl Chloride Process (IS3, IS4 and U1), but emissions averaging is not utilized. The facility has not elected to utilize emission averaging. [40 CFR 63.150]	None.	Other: Maintain emissions averaging Implementation Plan and backup calculations and records.[40 CFR 63.151].	Submit a plan: As per the approved schedule. Facilities electing to use emission averaging shall develop and submit for approval an Implementation Plan per 63.151(d). [40 CFR 63.152(a)(2)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Initial notifications (63.151) and general reporting and continuous records (63.152) in 40 CFR 63 Subpart G. These requirements apply to the Benzyl Chloride Process (IS3, IS4 and U1). [40 CFR 63.151(thru)(152)]	None.	Other: Submit reports listed in 63.152(a)(1) through (a)(5) and keep continuous records of monitored parameters as specified in 63.152(f). Reports include: (1) Initial Notification; (2) Implementation Plan for emission averaging; (3) Notification of Compliance Status; (4) Periodic Reports (e.g., semi-annual reports); and (5) Other reports (e.g., SSM reports).[40 CFR 63.152].	Submit notification: prepare report s (initial notice, notice of compliance status, and other required reports). The following notifications and reports shall be submitted for compliance with Subpart G: 1) an initial notice (submitted August 17, 1994); 2) A notification of compliance status (submitted September 18, 1997); 3) Period Reports (due January 31 and July 31 each year); 4) other reports described in section 63.152. [40 CFR 63.151(and)(152)]

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Subject Item: GR4 MACT Subpart H

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The provisions of 40 CFR 63 Subpart H apply to pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottom receivers, instrumentation systems, and control devices or closed vent systems required by this subpart that are intended to operate in organic hazardous air pollutant service 300 hours or more during a calendar year within a source subject to the provisions of a specific subpart in 40 CFR part 63 that references this subpart. The facility has elected to utilize 40 CFR 63 Subpart H to satisfy the LDAR requirements in 40 CFR 63 Subparts G (Benzyl Chloride - IS3, IS4, and U1 (Process A)) and the LDAR requirements in 40 CFR 63 Subpart FFFF (Phosphate Esters - U3 (Process C) and Benzyl Phthalate - U4 (Process D)). The requirements in FG1 Process A, FG3 Process C, and FG4 Process D are satisfied by compliance with 40 CFR 63 Subpart H except where N.J.A.C. 7:27-16.18 are more stringent. [40 CFR 63.160(a)]	None.	None.	None.
2	Except as provided in any subpart that references 40 CFR 63 Subpart H, lines and equipment not containing process fluids are not subject to the provisions of this subpart. Utilities, or other non-process lines, such as heating and cooling systems which do not combine their materials with those in the processes they serve, are not considered to be part of a process unit. [40 CFR 63.160(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The provisions of 40 CFR 63 Subpart H do not apply to research and development facilities or to bench-scale batch processes, regardless of whether the facilities or processes are located at the same plant site as a process subject to the provisions of this subpart. [40 CFR 63.160(f)]	None.	None.	None.
4	Compliance with 40 CFR 63 Subpart H will be determined by review of the records required by section 63.181 and the reports required by section 63.182, review of performance test results, and by inspections (visual and Method 21 monitoring). [40 CFR 63.162(a)]	None.	None.	None.
5	Each piece of equipment covered by 40 CFR 63 Subpart H must be identified. Identification does not require tagging in the field. It may be by drawings, logs, etc. Equipment that is in vacuum service is excluded from the requirements of this subpart. [40 CFR 63.162(c)(through)(d)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and updated at the time of each monitoring event for changes made since the last monitoring period. Maintain records of the identification of components requiring monitoring under 40 CFR 63 Subpart H. [40 CFR 63.181(b)]	None.
6	For compliance with 40 CFR 63 Subpart H, equipment that is in organic HAP service less than 300 hours per calendar year is excluded from the requirements in 40 CFR 63.163 through 63.174 and 40 CFR 63.178 if it is identified as required in 40 CFR 63.181(j). [40 CFR 63.162(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and updated at the time of each monitoring event for changes made since the last monitoring period. Identify equipment that is in organic HAP service less than 300 hours per calendar year either by a list of equipment or the location (area or group) of the equipment within a process unit. [40 CFR 63.181(j)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	For compliance with 40 CFR 63 Subpart H, when a leak is detected, the component must be identified by a visible, weatherproof tag. For valves, the tag may be removed after repair and follow up testing (monitoring per Method 21 at least once within the first 3 months after its repair. This is additional monitoring to the monitoring that is part of the repair). For equipment, other than valves, the tag may be removed after repair. Repair means adjusted, or otherwise altered, to eliminate the leak, and monitored per Method 21 of 40 CFR 60 Appendix A. [40 CFR 63.162(f)]	None.	None.	None.
8	All terms in 40 CFR 63 Subpart H that define a period of time for completion of required tasks (e.g., weekly, monthly, quarterly, annual), refer to the standard calendar periods unless specified otherwise in the section or subsection that imposes the requirement. [40 CFR 63.162(g)]	None.	None.	None.
9	It is a violation of 40 CFR 63 Subpart H to fail to take action to repair the leaks within the specified time. If action is taken to repair the leaks within the specified time, failure of the action to successfully repair the leak is not a violation. However, if repairs are unsuccessful and a leak is detected, further action is required by applicable provisions of this subpart. [40 CFR 63.162(h)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	For compliance with 40 CFR 63 Subpart H, monitor each pump in light liquid service monthly according to methods in 63.180(b). Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt provided the requirements in section 63.163(e) are followed. Also exempt are 1) pumps designed with no externally actuated shaft penetrating the pump housing, 2) pumps equipped with closed-vent systems capable of capturing and transporting any leakage from the seal or seals to a process or to a fuel gas system or to a control device, 3) pumps at a process unit where 90% either have a dual mechanical seal system or have no externally actuated shaft penetrating the pump housing, and 4) pumps designated as unsafe-to-monitor per 63.163(j). An instrument reading of 1,000 parts per million or greater defines a leak although repair is not required unless 2000 ppm is detected (Phase III - all other pumps). If, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak, the owner or operator shall implement a quality improvement program for pumps that complies with the requirements of section 63.176. [40 CFR 63.163]	Monitored by periodic leak detection monitoring each month during operation. Monitor each pump monthly according to methods in 63.180(b). [40 CFR 63.163(b)(1)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record monitoring readings. [40 CFR 63.181(d)]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	For compliance with 40 CFR 63 Subpart H, inspect each pump in light liquid service by visual inspection each calendar week for indications of liquids dripping from the pump seal (a drip means a leak is detected). Pumps located within the boundary of an unmanned plant site are exempt from the weekly visual inspection requirements (63.163(b)(3) and 63.163(e)(4)) and the daily requirements in 63.163(e)(5) provided that each pump is visually inspected as often as practicable and at least monthly. [40 CFR 63.163(b)(3)]	Monitored by visual determination each week during operation. Inspect each pump in light liquid organic HAP service for dripping seals. [40 CFR 63.163(b)(3)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. Record leaks found. [40 CFR 63.181(d)]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]
12	For compliance with 40 CFR 63 Subpart H, leaks detected during weekly inspection of pumps in light liquid organic HAP service must be repaired as soon as practicable but no later than 15 days after detection. The first attempt at repair must be made within 5 days per 63.163(c)(2). [40 CFR 63.163(c)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record date of repair, delayed repair, and process shutdown dates, if applicable. [40 CFR 63.181(d)]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]
13	For compliance with 40 CFR 63 Subpart H, the owner or operator must decide by the first monitoring period whether to use the process unit or source-wide basis to calculate percent leaking pumps. Once the decision is made, all subsequent percent calculations must be made on the same basis. The facility has selected process unit basis. [40 CFR 63.163(d)]	None.	Other: "Process unit basis" has been selected to calculate percent leaking pumps.[40 CFR 63.163(d)(1)].	None.
14	For compliance with 40 CFR 63 Subpart H, each pump equipped with a dual mechanical seal that includes a barrier fluid system is exempt from the requirements of 63.164 paragraphs (a) through (d) provided the requirements in 40 CFR 63.164(e) that characterize a dual mechanical seal system are met. [40 CFR 63.163(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	For compliance with 40 CFR 63 Subpart H, each compressor in OHAP service shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere. Seal system configurations must be compliant with and operated in accordance with 63.164(b) through (i). When a leak is detected, it must be repaired as soon as practicable, but not later than 15 calendar days after detection. First attempt at repair shall be made within 5 calendar days. The facility has no equipment in this service, therefore this requirement is not applicable. [40 CFR 63.164]	Other: Observe barrier fluid system sensor daily unless the sensor is equipped with an alarm. The facility has no equipment in this service, therefore this requirement is not applicable.[40 CFR 63.164].	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. Document compressor barrier fluid system monitoring results, leak history and repair history. The facility has no equipment in this service, therefore this requirement is not applicable. [40 CFR 63.181(f)]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]
16	For compliance with 40 CFR 63 Subpart H, each pressure relief device in gas/vapor service shall be operated with an instrument reading of less than 500 ppm above background as measured by the method specified in 63.180(c). After each pressure release, the pressure relief device shall be returned to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release. The facility has no equipment in this service, therefore this requirement is not applicable. [40 CFR 63.165]	Monitored by periodic emission monitoring upon occurrence of event. After a release the relief device must be tested within 5 days after being returned to HAP service. The facility has no equipment in this service, therefore this requirement is not applicable. [40 CFR 63.165]	Other: Maintain records of monitoring by equipment ID# per section 63.181(d).[40 CFR 63.181].	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]
17	For compliance with 40 CFR 63 Subpart H, each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system. The system shall be designed as specified in 63.166(b). Gases displaced during filling of the sample container are not required to be collected or captured. In-situ sampling systems and sampling systems without purges are exempt. [40 CFR 63.166]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	For compliance with 40 CFR 63 Subpart H, each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve that seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with the above requirements. [40 CFR 63.167(a)(and)(c)]	None.	None.	None.
19	For compliance with 40 CFR 63 Subpart H, each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed. [40 CFR 63.167(b)]	None.	None.	None.
20	For compliance with 40 CFR 63 Subpart H, open-ended valves or lines in an emergency shutdown system which are designed to open automatically in the event of a process upset and valves and lines containing materials which will autocatalytically polymerize or, would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system are exempt from being equipped with a cap, blind flange, plug, or a second valve that seals the open end at all times except during operations requiring process fluid flow or during maintenance or repair. [40 CFR 63.167(d)(and)(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	For compliance with 40 CFR 63 Subpart H, valves in gas/vapor service and in light liquid service shall be monitored by methods specified in 63.180(b) at intervals specified in 63.168(d). For Phase III (beginning no later than 2 and 1/2 years after the compliance date for existing sources and beginning no later than 1 year after initial start-up for new sources), an instrument reading of 500 ppm or greater indicates a leak. [40 CFR 63.168]	Monitored by periodic leak detection monitoring at the approved frequency. Monitoring shall be per 63.180(b) at a frequency based on leak rate history as defined in 63.168(d). Percent leaking valves at a process unit shall be determined by the equation in 63.168(e). [40 CFR 63.180(b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Records of monitoring, repair and percent leak rate. [40 CFR 63.181]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]
22	For compliance with 40 CFR 63 Subpart H, when a leak is detected from a valve in gas/vapor service or in light liquid service, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected per 63.168(g). Repair means adjusted, or otherwise altered, to eliminate the leak, and monitored per Method 21 of 40 CFR 60 Appendix A. When a leak has been repaired, the valve shall be monitored at least once within the first 3 months after its repair. This is additional monitoring to the monitoring that is part of the repair. [40 CFR 63.168]	Monitored by periodic leak detection monitoring at the approved frequency. The monitoring shall be conducted as specified in 63.180. [40 CFR 63.180]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Records of monitoring, repair and percent leak rate. [40 CFR 63.181]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]
23	For compliance with 40 CFR 63 Subpart H, valves in gas/vapor service or in light liquid service designated as unsafe-to-monitor are exempt per the stipulations in 63.168(h); valves designated as difficult-to-monitor are exempt per the stipulations in 63.168(i); and any equipment located at a plant site with fewer than 250 valves in organic HAP service is exempt from monthly monitoring (shall monitor quarterly instead) and also from the quality improvement program specified in section (63.168(d)(1)). [40 CFR 63.168]	Monitored by periodic leak detection monitoring at the approved frequency. Unsafe-to-monitor valves shall be monitored according to a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but no more frequently than the periodic monitoring schedule otherwise applicable. Difficult-to-monitor valves shall be monitored in accordance with a written plan that requires monitoring of the valves at least once per calendar year. [40 CFR 63.168(h)(and)(i)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Records of monitoring, repair and percent leak rate. [40 CFR 63.181]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	For compliance with 40 CFR 63 Subpart H, pump, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in light liquid or heavy liquid service shall be monitored within 5 calendar days by the method specified in 63.180(b) if evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or any other detection method. If such a potential leak is repaired per 63.169(c) and (d), it is not necessary to monitor for leaks by the method specified in 63.180(b) (Method 21 instrument survey). If an instrument reading of 10,000 ppm or greater for agitators, 2000 ppm or greater for pumps handling non-polymers, or 500 ppm or greater for valves, connectors, instrumentation systems, and pressure relief devices is measured, a leak is detected. [40 CFR 63.169]	Other: When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected. First attempt at repair shall be made no later than 5 calendar days after each leak is detected. If repairs are made per the above schedule, the monitoring method utilized to determine a successful repair is that visual, audible, olfactory, or other indications of a leak to the atmosphere have been eliminated; that no bubbles are observed at the potential leak sites during leak check using soap solution; or that the system will hold pressure.[40 CFR 63.169].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Records of monitoring, repair and percent leak rate. [40 CFR 63.181]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]
25	For compliance with 40 CFR 63 Subpart H, each surge control vessel or bottoms receiver that is not routed back to the process and that meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3 shall be equipped with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with 63.172, with noted exceptions. [40 CFR 63.170]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	For compliance with 40 CFR 63 Subpart H, delay of repair of equipment for which leaks have been detected is allowed if repair within 15 days is technically infeasible without a process unit shutdown. Repair of this equipment shall occur by the end of the next process unit shutdown. Delay of repairs for valves, connectors, agitators, pumps are detailed in 40 CFR 63.171. Extended delay of repair provisions due to long delivery parts are also detailed in 40 CFR 63.171 [40 CFR 63.171]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Records of monitoring, repair and percent leak rate. [40 CFR 63.181]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]
27	Owners and operators of closed-vent systems and control devices used to comply with 40 CFR 63 Subpart H shall comply with the requirements in section 63.172. [40 CFR 63.172]	Monitored by periodic leak detection monitoring at the approved frequency. If the closed vent system is constructed of hard-piping, conduct an initial inspection according to the procedures in 63.180(b) and conduct annual visual inspections for visible, audible, or olfactory indications of leak. If the vapor collection system or closed-vent system is constructed of duct work, conduct an initial and annual inspections according to the procedures in 63.180(b). [40 CFR 63.172(f)(1)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Records of monitoring, repair and percent leak rate. [40 CFR 63.181(d)]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]
28	For compliance with 40 CFR 63 Subpart H, agitators in gas/vapor service and in light liquid service shall be monitored in accordance with 40 CFR 63.173 [40 CFR 63.173]	Monitored by periodic leak detection monitoring at the approved frequency. Monitoring of agitators in gas/vapor service or light liquid service shall be in accordance with the methods in section 63.180. [40 CFR 63.180(b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Records of monitoring, repair and percent leak rate. [40 CFR 63.181]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	For compliance with 40 CFR 63 Subpart H, connectors in gas/vapor service and in light liquid service shall be monitored at a frequency specified in 63.174(b) and in accordance with the methods specified in 63.180(b) (Method 21 of 40 CFR 60 Appendix A). Exceptions to these procedures are for unsafe-to-monitor connectors (per 63.181(b)(7)(i)), unsafe-to-repair connectors (per 63.181(b)(7)(iii)), inaccessible connectors (per 63.174(h)(1)), and ceramic/ceramic-lined connectors. If an instrument reading greater than 500 ppm is measured, a leak is detected. When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected (except for unsafe-to-repair connectors). A first attempt repair shall be made no later than 5 calendar days after the leak is detected. Repair is defined as adjusted, or otherwise altered, to eliminate the leak and monitored as specified in 63.180(b) and (c) by Method 21 to verify that emissions are below the 500 ppm leak threshold. [40 CFR 63.174]	Monitored by periodic leak detection monitoring at the approved frequency. Monitoring of connectors in gas/vapor service or light liquid service shall be in accordance with the methods in section 63.180(b) and (c). Initial monitoring for existing sources shall be conducted no later than 12 months after the compliance date, and for new sources within 12 months after initial start-up. Subsequent monitoring shall be performed once per year (i.e., 12-month period), if the percent leaking connectors in the process unit was 0.5 % or greater during the last required annual or biennial monitoring period; once every 2 years, if the percent leaking connectors was less than 0.5 % during the last required monitoring period; and once time every 4 years if a process unit in a biennial leak detection and repair program calculates less than 0.5 % leaking connectors from the 2-year monitoring period. If the percent leak rate increases above 0.5% or 1.0% thresholds, monitoring must be done more frequently (as often as annually) until demonstration of thresholds that allow less frequent monitoring. [40 CFR 63.174(b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Records of monitoring, repair and percent leak rate. [40 CFR 63.181]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	For compliance with 40 CFR 63 Subpart H, each connector that has been opened or has otherwise had the seal broken shall be monitored for leaks when it is reconnected or within the first 3 months after being returned to organic HAP service. If monitoring detects a leak (500 ppm), it shall be repaired (leak eliminated and monitored) as soon as practicable, but no later than 15 calendar days after the leak is detected, unless it is determined to be nonrepairable. A first attempt repair shall be made no later than 5 calendar days after the leak is detected. As an alternative to the above requirements, an owner or operator may choose not to monitor connectors that have been opened or otherwise had the seal broken. In this case, nonrepairable connectors may not be counted for the purposes of calculating percent leaking per 63.174(i)(2) during subsequent monitoring periods. The percent leaking connectors shall be calculated by setting the nonrepairable component, C (sub AN), in the equation in paragraph 63.174(i)(2) to zero for all monitoring periods. Switching between alternatives shall be in accordance with 63.174(c)(1)(iii). [40 CFR 63.174(c)]	Monitored by periodic leak detection monitoring at the approved frequency. Monitoring of connectors in gas/vapor service or light liquid service shall be in accordance with the methods in section 63.180(b) and (c). [40 CFR 63.180(b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Records of monitoring, repair and percent leak rate. [40 CFR 63.181]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	For compliance with 40 CFR 63 Subpart H, and as an alternative to the general monitoring requirements for connectors in gas/vapor service and in light liquid service (63.174(b)(3)), each screwed connector two (2) inches or less in nominal inside diameter installed in a process unit before December 31, 1992 (for 40 CFR 63 Subparts F & I) and before the date of proposal of the standard for other than EPA parts that reference these requirements shall comply with the requirements in 63.169 (heavy liquid standards) and be monitored for leaks within the first 3 months after being returned to organic HAP service after having been opened or otherwise had the seal broken. Heavy liquid standards consist of monitoring (Method 21) within 5 calendar days if evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or other detection method. If the monitoring detects a leak, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. Repaired shall mean that the visual, audible, olfactory, or other indications of a leak to the atmosphere have been eliminated; or that no bubbles are observed at potential leak sites during a leak check using soap solution; or that the system will hold a test pressure. [40 CFR 63.174(c)(2)]	Monitored by periodic leak detection monitoring at the approved frequency. Monitor in accordance with the requirements in 63.169 and 63.174(c)(2)(ii). [40 CFR 63.174(c)(2)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Records of monitoring, repair and percent leak rate. [40 CFR 63.181]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
32	For compliance with 40 CFR 63 Subpart H: The quality improvement programs for valves (63.175), the quality improvement program for pumps (63.176), alternative means of emission limitation - general (63.177), the alternative means of emission limitation - batch processes (63.178), and the alternative means of emission limitation: Enclosed-vented process units (63.179) are detailed in 40 CFR 63.175 through 63.179. [40 CFR 63.175(through)(179)]	None.	Other: Upon implementation of any of these programs, the required records shall be kept.[40 CFR 63.181].	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]
33	Monitoring under 40 CFR 63 Subpart H shall be in accordance with 40 CFR 60 Appendix A Method 21 and the standards set forth in section 63.180. [40 CFR 63.180]	Monitored by periodic leak detection monitoring at the approved frequency. Monitoring under 40 CFR 63 Subpart H shall be in accordance with 40 CFR 60 Appendix A Method 21 and the standards set forth in section 63.180. [40 CFR 63.180]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Records of monitoring, repair and percent leak rate. [40 CFR 63.181]	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]
34	General Recordkeeping Requirements for all Subpart H elements shall be in accordance with the requirements in section 63.181. [40 CFR 63.181]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Records of monitoring, repair, percent leak rate, and reports. [40 CFR 63.181]	None.
35	General Reporting Requirements for all Subpart H elements shall be in accordance with the requirements in section 63.182. [40 CFR 63.182]	None.	None.	Submit a report: Once initially. Initial report is due 120 days after promulgation for existing sources and within 90 days of startup for new sources. The Initial HON Notification for the facility was filed on August 17, 1994. The HON Subpart G Notice of Compliance Status (NOCS) was filed on September 18, 1997. [40 CFR 63.182(b)]
36	General Reporting Requirements for all Subpart H elements shall be in accordance with the requirements in section 63.182. [40 CFR 63.182]	None.	None.	Submit a report: Other. The six month cycles shall begin in January 1 (report due January 21) and July 1 (report due July 21) of each year. Routine report due every six months listing leaking components, delayed repairs, shutdown dates, etc. per 40 CFR 63.182. [40 CFR 63.182(d)]

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Subject Item: GR5 MACT Subpart NNNNN

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	You are subject to 40 CFR 63 Subpart NNNNN if you own or operate an HCl production facility that produces a liquid HCl product at a concentration of 30 weight percent or greater during its normal operations and is located at, or is part of, a major source of HAP. Polymer Additives Inc. located in Bridgeport, NJ is an affected facility. [40 CFR 63.8985(a)]	None.	None.	None.
2	The facility is subject to the provisions of 40 CFR 63 Subpart NNNNN - National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production because it produces HCL at a concentration of 32% and is located at a major source of HAP (total HAP potential to emit > 25 tons per year). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	As specified in 40 CFR 63 Subpart NNNNN, the affected source is the group of one or more HCL production facilities at a plant site that are subject to this subpart, and all associated wastewater operations, which contain the collection of emission streams listed in (1) through (5): (1) Each emission stream from an HCL process vent; (2) Each emission stream from an HCL storage tank; (3) Each emission stream from an HCL transfer operation; (4) Each emission stream resulting from leaks from equipment in HCl/CL2 service; (5) Each emission stream from HCl wastewater operations. There are no emission limitations or other requirements in this subpart that apply to HCl wastewater operations. [40 CFR 63.8990(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The affected source subject to the provisions of 40 CFR 63 Subpart NNNNN is the following collection of emission streams: (1) HCl process vent (U1 OS3); (2) HCl storage tank (U1 OS18, OS20, OS22); (3) HCl transfer operation (U1 OS25, OS26); and (4) Leaks from equipment in HCl/CL2 service (FG1). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	As specified in 40 CFR 63 Subpart NNNNN, an affected source is a new affected source if you commenced construction of the affected source after September 18, 2001 and you met the applicability criteria of 40 CFR 63.8985 at the time you commenced construction or reconstruction (criteria as defined in 40 CFR 63.2). [40 CFR 63.8990(c)]	None.	None.	None.
6	The affected source subject to the provisions of 40 CFR 63 Subpart NNNNN is existing because it commenced construction before September 18, 2001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	As specified in 40 CFR 63 Subpart NNNNN, if you have an existing affected source, you must comply with the emission limitations and work practices no later than 3 years after April 17, 2003 (April 17, 2006). The Notice of Compliance Status was submitted December 8, 2006. [40 CFR 63.8995(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	For compliance with 40 CFR 63 Subpart NNNNN, you must meet the applicable emission limit and work practice standard in Table 1 of 40 CFR 63.9075 for each emission stream listed under 40 CFR 63.8990(b)(1) through (4) that is part of your affected source. [40 CFR 63.9000(a)]	Other: You must conduct each performance test in Table 3 of 40 CFR 63.9075 that applies to you as directed in 40 CFR 63.9020(a)(1) through (4), except as noted in 40 CFR 63.9020(b) and (c). The initial performance test was conducted October 12, 2006 demonstrating compliance.[40 CFR 63.9020(a)].	Other: If you use a caustic scrubber or a water scrubber/absorber to meet the emission limits in Table 1 of 40 CFR 63.9075, you must keep the records specified in 40 CFR 63.9035(b)(1) and (2) that are consistent with the EPA approved monitoring for the permittee. If you use any other control device to meet the emission limits in Table 1 of 40 CFR 63.9075, you must keep records of the operating parameter values identified in your monitoring plan in 40 CFR 63.9025(c) to support your compliance demonstration.[40 CFR 63.9035(b)(thru)(c)].	None.
9	The facility must comply with the emission limits and work practice standards from Table 1 to MACT Subpart NNNNN (40 CFR 63.9075) for the existing HCl process vents: U1-OS3: CD3 must reduce HCl emissions by 99% or greater or to an outlet concentration of 20 ppmv or less. U1-OS3: CD3 must reduce Cl2 emissions by 99% or greater or to an outlet concentration of 100 ppmv or less. [40 CFR 63.9000(a)] & [N.J.A.C. 7:27-22.16(a)]	Monitored by stack emission testing prior to permit expiration date. See stack testing requirements in Ref. #13. The South Caustic Scrubber is the compliance (control) device. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results prior to permit expiration date. Records must be in a form suitable and readily available for expeditious inspection and review. Each record must be kept for 5 years following the date of each occurrence and each record must be kept on site, or readily accessible from on site through a computer or other means, for at least 2 years after the date of each occurrence. Records may be kept off site for the remaining 3 years. Records may be maintained in hard copy or computer-readable format including, but not limited to, on paper, microfilm, hard disk drive, floppy disk, compact disk, magnetic tape, or microfiche. [40 CFR 63.10(b)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test report within 60 days of stack testing. This report should also verify that the operating limits (as established in Table 2) for your affected source have not changed or provide documentation of revised operating limits established during testing. [40 CFR 63.9015]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	<p>The facility must comply with the emission limits and work practice standards from Table 1 to MACT Subpart NNNNN (40 CFR 63.9075) for the existing HCl storage tanks:</p> <p>U1-OS18, 20, 22: CD3 must reduce HCl emissions by 99% or greater or to an outlet concentration of 120 ppmv or less. [40 CFR 63.9000(a)] & [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing prior to permit expiration date. See stack testing requirements below. The South Caustic Scrubber is the control device. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results prior to permit expiration date. Records must be in a form suitable and readily available for expeditious inspection and review. Each record must be kept for 5 years following the date of each occurrence and each record must be kept on site, or readily accessible from on site through a computer or other means, for at least 2 years after the date of each occurrence. Records may be kept off site for the remaining 3 years. Records may be maintained in hard copy or computer-readable format including, but not limited to, on paper, microfilm, hard disk drive, floppy disk, compact disk, magnetic tape, or microfiche.[40 CFR 63.10(b)] & [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test report within 60 days of stack testing. This report should also verify that the operating limits for your affected source have not changed or provide documentation of revised operating limits established during testing. [40 CFR 63.9015] & [N.J.A.C. 7:27-22.16(o)]</p>
11	<p>The facility must comply with the emission limits and work practice standards from Table 1 to MACT Subpart NNNNN (40 CFR 63.9075) for the existing HCl storage tanks:</p> <p>U1-OS18, 20, 22: The (once through) venturi scrubber (CD6, maintained as a backup to the South Caustic Scrubber (CD3)) must reduce HCl emissions by 99% or greater or to an outlet concentration of 120 ppmv or less. [40 CFR 63.9000(a)]</p>	<p>Other: The facility may prepare a design evaluation in lieu of conducting a performance test for HCl storage tanks that are not routed to a control device that also controls HCl process vent emissions or any other continuous vent stream.</p> <p>The facility submitted an engineering assessment, which demonstrated that the (once through) venturi scrubber (CD6) achieves the required control efficiency (99% or greater) and established the minimum scrubber inlet liquid flow rate. From BOP170002.[40 CFR 63.9020(c)].</p>	<p>Other: The facility must keep a copy of the engineering assessment on site that demonstrates that the (once through) venturi scrubber (CD6) achieves the required control efficiency (99% or greater).[N.J.A.C. 7:27-22.16(o)].</p>	<p>None.</p>
12	<p>The facility must comply with the emission limits and work practice standards from Table 1 to MACT Subpart NNNNN (40 CFR 63.9075) for the existing HCl transfer operations:</p> <p>U1 (Benzyl Chloride Production), OS25, and OS26 (2 - HCl Loading Docks) are the only affected transfer operations [40 CFR 63.9000(a)]</p>	<p>Other: OS25 and OS26 are vapor balanced with OS18, OS20 and OS22 (HCl storage tanks which vent to the South Caustic Scrubber). See stack testing requirements in Ref. #13. The South Caustic Scrubber is the control device.[40 CFR 63.9020].</p>	<p>None.</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	For compliance with 40 CFR 63 Subpart NNNNN, the facility submitted a performance test report, approved by BTS letter on 07/17/07, which demonstrated that the 1% caustic concentration of the scrubbing medium (as approved by EPA letter dated 04/10/06) provides adequate control, and established the minimum scrubber inlet liquid flow rate for CD3, with the operating permit renewal application. From BOP080004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	For compliance with 40 CFR 63 Subpart NNNNN, conduct a comprehensive stack test at emission point PT3 at least 18 months prior to expiration of the approved operating permit to demonstrate compliance with the HCl and Cl ₂ emission limits or the HCl and Cl ₂ removal efficiency requirements while operating CD3. Testing must be conducted at worst-care permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The test shall be conducted at the maximum achievable throughput at the time of the test up to the permitted chlorine throughput of 10,367 lb/hr (see U1 OS Summary Ref. 3). From BOP080006. [N.J.A.C. 7:27-22.16(a)]	Monitored by stack emission testing prior to permit expiration date. The facility must develop a site-specific test plan according to 40 CFR 63.7(c)(2) and conduct each performance test according to the site-specific plan. Each test must be conducted under representative conditions according to the requirements of 40 CFR 63.7(e)(1) and under the specific conditions specified in Table 3. Performance tests may not be conducted during periods of start-up, shutdown, or malfunction. The facility must conduct at least 3 separate test runs for each performance test and each test run must last at least 1 hour. Stack test shall be conducted for HCl and Cl ₂ limits. [40 CFR 63.9020(a)] &. [N.J.A.C. 7:27-22.16(o)]	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. Submit a stack test protocol to the Bureau of Technical Services (BTS) at PO Box 437, Trenton, NJ 08625. 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 report must be submitted to BTS within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist. A copy of the test results must be submitted with the operating permit renewal application, due at least 12 months prior to expiration of the Operating Permit, or as an addendum to the application within 60 days after performing the stack test. The results shall report HCl and Cl ₂ lb/hr before and after CD3 scrubber and CD3 removal efficiency (if complying with 99% reduction requirement) or HCl and Cl ₂ ppmv at CD3 scrubber outlet (if complying with outlet concentration requirement). [40 CFR 63.9015(b)], [N.J.A.C. 7:27-22.18(e)] &. [N.J.A.C. 7:27-22.18(h)]

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15	The facility must meet the work practice standard in Table 1 to MACT Subpart NNNNN (40 CFR 63.9075) for each emission stream from leaking equipment in HCl/CL2 service at existing sources: a. Prepare and operate at all times according to a Site LDAR Plan that describes in detail the measures that will be put in place to detect leaks and repair them in a timely fashion; and b. Submit the plan to the Administrator for comment only with your notification of Compliance Status; and c. You may incorporate by reference in such plan existing manuals that describe the measures in place to control leaking equipment emissions required as part of other federally enforceable requirements, provided that all manuals that are incorporated by reference are submitted to the Administrator. [40 CFR 63.9000(a)]	Monitored by periodic leak detection monitoring at the approved frequency. Monitoring shall be conducted in accordance with the Site LDAR Plan. [40 CFR 63.9000(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Records of monitoring per the Site LDAR Plan must be in a form suitable and readily available for expeditious inspection and review. Each record must be kept for 5 years following the date of each monitoring event and each record must be kept on site, or readily accessible from on site through a computer or other means, for at least 2 years after the date of each occurrence. Records may be kept off site for the remaining 3 years. Records may be maintained in hard copy or computer-readable format including, but not limited to, on paper, microfilm, hard disk drive, floppy disk, compact disk, magnetic tape, or microfiche. [40 CFR 63.9000(a)]	Submit a plan: Once initially and after revisions. Submit the Site LDAR Plan and any revisions or updates to the NJDEP for comment only. The initial Site LDAR Plan was submitted with the NOCS Report on December 8, 2006. [40 CFR 63.9055(b)(5)]
16	Flowrate of Scrubbing Medium at Scrubber Inlet: For caustic scrubber or water scrubber/absorber affected by 40 CFR 63 Subpart NNNNN, maintain the daily average scrubber inlet liquid or recirculating liquid flow rate, as appropriate, above the operating limit. The South Caustic Scrubber, 02-CD-05 (CD3) is made up of a common scrubbing liquor sump and two (2) scrubbers mounted on the sump. The gases to be scrubbed are first routed through a venturi scrubber. The gases and the liquid from the venturi both flow to the scrubbing liquor sump and subsequently to the packed tower scrubber with exit to the atmosphere. An alternative monitoring plan was approved by EPA Region II allowing minimum flows of 100 gpm and 10 gpm, respectively instead of the 105 gpm and the 12 gpm flow averages measured during October 12, 2006 initial compliance testing. [40 CFR 63.9000(b)]	Flowrate of Scrubbing Medium at Scrubber Inlet surrogate for HCl Emissions: Monitored by scrubber flow rate instrument continuously on both venturi and packed tower. Continuously is defined as collecting data from at least four equally spaced periods each hour for at least 75% of the operating hours in a 24-hour period (valid data). Hourly average values must be calculated for each hour of valid data.[40 CFR 63.9000(b)] and. [40 CFR 63.9025]	Flowrate of Scrubbing Medium at Scrubber Inlet surrogate for HCl Emissions: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. Both venturi and packed tower data is required to be kept. [40 CFR 63.9000(b)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	For each HCL process vent and each HCL storage tank and HCL transfer operation for which you are conducting a performance test, establish operating limits with which you will demonstrate continuous compliance with the emission limits in Table 1 of 40 CFR 63 Subpart NNNNN in accordance with 40 CFR 63.9020(e)(1). [40 CFR 63.9020]	Other: The facility must conduct monitoring in accordance with the plan submitted to the Administrator.[40 CFR 63.9025(b)].	Other: You must keep records of operating parameter values that are consistent with your monitoring plan. As specified in 40 CFR 63.10(b)(1), each record must be kept for 5 years following the date of each monitoring event and each record must be kept on site, or readily accessible from on site through a computer or other means, for at least 2 years after the date of each occurrence. Records may be kept off site for the remaining 3 years. Records may be maintained in hard copy or computer-readable format including, but not limited to, on paper, microfilm, hard disk drive, floppy disk, compact disk, magnetic tape, or microfiche. [40 CFR 63.9055(b)(3)], [40 CFR 63.9060(b), &[40 CFR 63.9060(c)].	None.
18	Affected 40 CFR 63 Subpart NNNNN source using a caustic scrubber or water scrubber/absorber shall demonstrate continuous compliance with emission limitations by collecting the scrubber inlet liquid or recirculating liquid flow rate consistent with your site-specific monitoring plan at all times the process is running (Table 5 #1). The daily average flow rates for the South Caustic Scrubber venturi and packed tower shall be maintained above the operating limit. [40 CFR 63.9040]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Affected 40 CFR 63 Subpart NNNNN source using a caustic scrubber or water scrubber/absorber shall demonstrate continuous compliance with emission limitations by measuring the caustic concentration in the South Scrubber Sump once per day consistent with your site-specific monitoring plan at all times the process is running. The caustic concentration for the South Caustic Scrubber (02-CD-05)(CD3) venturi and packed tower shall be maintained above the operating limit. An alternate monitoring plan allowing daily caustic concentration monitoring in lieu of continuous pH monitoring was approved by EPA Region II on April 10, 2006. A copy of the EPA approval letter was included in the Notification of compliance Status Report submitted December 8, 2006. (Table 2 #1c and Table 5 #1). [40 CFR 63.9040]	None.	None.	None.
20	For compliance with 40 CFR 63 Subpart NNNNN, for emission streams from leaking equipment in HCL service, you must verify that you continue to use your Site LDAR Monitoring Plan and report any instances where you deviated from the plan and corrective actions taken. The Site LDAR Monitoring Plan was submitted with the NOCS Report on December 8, 2006. (Table 5 #4). [40 CFR 63.9040]	Monitored by periodic leak detection monitoring at the approved frequency. [40 CFR 63.9040]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. [40 CFR 63.9040]	Submit a report: Semi-annually on January 31 and July 31 of each year. The report must verify that you continue to use your Site LDAR Monitoring Plan. The report must also include any instances where you deviated from the plan and the corrective actions taken. [40 CFR 63.9040]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	For compliance with 40 CFR 63 Subpart NNNNN, you must submit a semi-annual compliance report covering the information in 40 CFR 63.9050 (c) through (e) as well as the following information as per Table 6 of Subpart NNNNN. (1) If there are no deviations from any emission limitations that apply to you, you must submit a report or statement that "there were no deviations from any emission limitations during the reporting period". (2) If there were no periods during which the operating parameter monitoring systems were out-of-control in accordance with the monitoring plan, you must submit a report or statement that "there were no periods during which the CMS were out-of-control during the reporting period". (3) If there was a deviation from any emission limitation during the reporting period, you must submit a report or statement that contains the information in 40 CFR 63.9050(d). (4) If there were periods during which the operating parameter monitoring systems were out-of-control in accordance with the monitoring plan, you must submit a report or statement that contains the information in 40 CFR 63.9050(d). (5) If there was a SSM during the reporting period that is not consistent with your SSM plan, you must submit a report or statement that contains the information in 40 CFR 63.9050(f). (6) If there were periods when the procedures in the Site LDAR Plan were not followed, you must submit a report or statement that contains the information in 40 CFR 63.9050(c)(7). [40 CFR 63.9050]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The facility must keep a copy of the report as required in 40 CFR 63.10(b)(2)(xiv). [N.J.A.C. 7:27-22.16(o)]	Submit a report: Semi-annually on January 31 and July 31 of each year. Submit a compliance report with the information identified in the Applicable Requirement (40 CFR 63.9050(c)(1) - (10). The semi-annual report periods are January 1 through June 30 (postmarked/delivered by July 31) and July 1 through December 31 (postmarked/delivered by January 31). The facility submitted its first compliance report, covering the period April 17, 2006 (the date of compliance) to December 31, 2006 on January 29, 2007. [40 CFR 63.9050(b)] & [40 CFR 63.9050]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	For compliance with 40 CFR 63 Subpart NNNNN, for each startup, shutdown, or malfunction during the reporting period that is not consistent with your SSM plan you must submit an immediate startup, shutdown, and malfunction report, according to 40 CFR 63.9050(f)(1) and (2). [40 CFR 63.9050(f)] & [N.J.A.C. 7:27-22.16(a)]	None.	Other: The SSM report must contain the information in 40 CFR 63.9050(f). The facility must keep a copy of each report as required in 40 CFR 63.10(b)(2)(xiv). [N.J.A.C. 7:27-22.16(o)].	Submit a report: As per the approved schedule to the NJDEP. Submit an initial report within two working days and a follow-up report within seven working days after end of event. [N.J.A.C. 7:27-22.16(o)]
23	You must keep a copy of each notification that you submitted to comply with Subpart NNNNN, including all documentation supporting any Initial Notification that you submitted, as required in 40 CFR 63.10(b)(2)(xiv). [40 CFR 63.9055(a)]	None.	None.	None.
24	The facility has demonstrated initial compliance for CD3 if the average percent reduction of HCl and CL2 (if applicable), measured over the period of the performance test conducted according to Table 3 of 40 CFR 63 Subpart NNNNN and determined in accordance with 40 CFR 63.9020(b), is greater than or equal to the applicable percent reduction emission limitation specified in Table 1 of 40 CFR 63 Subpart NNNNN or if the average HCl and CL2 (if applicable) concentration, measured over the period of the performance test conducted according to Table 3 of 40 CFR 63 Subpart NNNNN, is less than or equal to the applicable concentration emission limitation specified in Table 1 of 40 CFR 63 Subpart NNNNN. [40 CFR 63.9030(a)] & [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep a copy of the Notification of Compliance Status certifying initial compliance for the control devices. [N.J.A.C. 7:27-22.16(o)].	Submit notification: As per the approved schedule. Submit the results of the initial compliance demonstration with the Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). [40 CFR 63.9045(e)] & [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	When you conduct a performance test as specified in Table 3 of Subpart NNNNN, you must submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). [40 CFR 63.9045(f)]	None.	None.	Submit notification: As per the approved schedule. You must submit the Notification of Compliance Status (NOCS), including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to 40 CFR 63.10(d)(2). The Notification of Compliance Status must also include the information in 40 CFR 63.9045(g)(1) through (2). The NOCS was submitted December 8, 2006. [40 CFR 63.9045(f) & [40 CFR 63.9045(g)]
26	Scrubbing Medium Flow Rate \geq 10 gal/min. Minimum scrubber inlet flow rate to the packed tower portion of 02-CD-05 (CD3). This minimum limit was established by initial performance test report, approved by EPA letter dated 10/26/07 for compliance with 40 CFR 63 Subpart NNNNN. From BOP080004. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [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 daily. [N.J.A.C. 7:27-22.16(o)]	None.
27	Scrubbing Medium Flow Rate \geq 100 gal/min. Minimum scrubber inlet flow rate to the venturi portion of 02-CD-05 (CD3). This minimum limit was established by initial performance test report, approved by EPA letter dated 10/26/07 for compliance with 40 CFR 63 Subpart NNNNN. From BOP080004. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [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. [N.J.A.C. 7:27-22.16(o)]	None.
28	For compliance with 40 CFR 63 Subpart NNNNN, for scrubber control devices, you may request approval, in accordance with 40 CFR 63.8(f), to monitor parameters other than those specified in 40 CFR 63.9020(e) [40 CFR 63.9025(b)]	Other: You must conduct monitoring in accordance with the plan submitted to the Administrator unless comments received from the Administrator require an alternate monitoring scheme.[40 CFR 63.9025(b)].	None.	Submit a plan: As per the approved schedule. In accordance with 40 CFR 63.8(f), you must submit a monitoring plan to the Administrator and the plan must meet the requirements in 40 CFR 63.9025(a) and (b)(1) through (3). [40 CFR 63.9025(b)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	For compliance with 40 CFR 63 Subpart NNNNN, the caustic concentration of the scrubbing medium (NaOH) \geq 1% for 02-CD-05 (CD3). The requirement to use daily sampling and analysis for caustic concentration to replace the required continuous monitoring of the pH of the scrubber solution for CD3 was approved by EPA letter dated 04/10/06. This limit was confirmed to provide adequate control by initial performance test report, approved by EPA letter dated 10/26/07. [N.J.A.C. 7:27-22.16(a)]	Monitored by grab sampling once per calendar day during operation and perform an analysis once per day. This method of monitoring was approved by EPA letter on 04/10/06. [40 CFR 63.9025(b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation of the sample concentration. This frequency was approved by EPA letter on 04/10/06. [40 CFR 63.9025]	None.
30	For compliance with 40 CFR 63 Subpart NNNNN, you must demonstrate initial compliance with each emission limit and work practice standard that applies to you according to Table 4 of 40 CFR 63.9075. [40 CFR 63.9030(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Production Rate <= 55,000 tons/yr (110,000,000 lb/yr) of Benzyl Chloride. Applicable to OS3-OS6. [N.J.A.C. 7:27-22.16(a)]	None.	Total Production Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. In a calendar year, the permittee shall add the current month's pounds to the previous month's pounds to calculate the year-to-date pounds. [N.J.A.C. 7:27-22.16(o)]	None.
2	Total Throughput <= 248,800 lb/day of Chlorine (maximum daily raw material throughput). Applicable to OS3-OS6. [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per shift during operation of pounds of chlorine fed to the reactor system. [N.J.A.C. 7:27-22.16(o)]	None.
3	Total Throughput <= 10,367 lb/hr of Chlorine. Maximum hourly raw material throughput that may be fed to the reactor system for OS3-OS7 and OS23-27. From BOP080006. Maximum throughput was established based on stack test results (See TST080002). From BOP100001. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: 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.
4	VOC (Total) <= 14.2 tons/yr. Annual emission limit for Benzyl Chloride equipment based on TANKS 2.0 (for storage tanks) and process knowledge (for manufacturing/material handling equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	HAPs <= 9.44 tons/yr. Annual emission limit for Benzyl Chloride equipment based on TANKS 2.0 (for storage tanks) and process knowledge (for manufacturing/material handling equipment). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Benzene <= 0.35 tons/yr. Annual emission limit of this HAP for Benzyl Chloride equipment based on process knowledge (for manufacturing/material handling equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Benzyl chloride <= 0.71 tons/yr. Annual emission limit of this HAP for Benzyl Chloride equipment based on process knowledge (for manufacturing/material handling equipment). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Chlorine <= 1.31 tons/yr. Annual emission limit of this HAP for Benzyl Chloride equipment based on process knowledge (for manufacturing/material handling equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	HCl Emissions <= 4.6 tons/yr. Annual emission limit of this HAP for Benzyl Chloride equipment based on TANKS 2.0 (for storage tanks) and process knowledge (for manufacturing/material handling equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Propylene oxide <= 0.15 tons/yr. Annual emission limit of this HAP for Benzyl Chloride equipment based on process knowledge (for manufacturing/material handling equipment). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	Toluene <= 2.32 tons/yr. Annual emission limit of this HAP for Benzyl Chloride equipment based on TANKS 2.0 (for storage tanks) and process knowledge (for manufacturing/material handling equipment). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	See GR1 for MACT Subpart A requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	See GR2 for MACT Subpart F requirements. [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
14	See GR3 for MACT Subpart G requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	See GR4 for MACT Subpart H requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	See GR5 for MACT Subpart NNNNN requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	The Subpart FF Benzene Waste Operations apply to chemical manufacturing plants, coke by-product recovery plants, and petroleum refineries. The provisions also apply to hazardous waste treatment, storage, and disposal facilities that treat, store, or dispose of hazardous waste generated by any facility listed above. The following wastes are exempt: (1) Waste in the form of gases or vapors that is emitted from process fluids and; and (2) waste that is contained in a segregated stormwater sewer system. The regulation applies because the facility is a chemical manufacturing plant. [40 CFR 61.340]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	For compliance with 40 CFR 63 Subpart FF, an owner or operator of a facility at which the total annual benzene quantity from facility waste is equal to or greater than 10 megagrams per year (Mg/yr) (11 tons/yr) shall comply with the requirements in paragraphs (b) through (h) of 61.342, Standards, General and the standards in sections 61.343 through 61.354. [40 CFR 61.342(a)]	Other: Determine the total annual benzene quantity once initially and annually. An owner or operator shall determine the total annual benzene quantity at the point of waste generation. [40 CFR 61.355(a)(1)] thru[40 CFR 61.355(a)(3)].	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and annually. Maintain records that identify each waste stream at the facility subject to this subpart, and indicate whether or not the waste is controlled for benzene emissions in accordance with this subpart. In addition the owner or operator shall maintain the following records: 1) For each waste stream not controlled for benzene emissions in accordance with this subpart, the records shall include all test results, measurements, calculations, and other documentation used to determine the following information for the waste stream: waste stream identification, water content, whether or not the waste stream is a process wastewater stream, annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity; 2) for each waste stream exempt from 40 CFR 61.342(c)(1) in accordance with 61.342(c)(3), the records shall include: a) all measurements, calculations, and other documentation used to determine that the continuous flow of process wastewater is less than 0.02 liters (0.005 gallons) per minute or the annual waste quantity of process wastewater is less than 10 Mg/yr (11 ton/yr) in accordance with 61.342(c)(3)(i), or b) all measurements, calculations, and other documentation used to determine that the sum of the total annual benzene quantity in all exempt waste streams does not exceed 2.0 Mg/yr (2.2 ton/yr) in accordance with 61.342(c)(3)(ii). [40 CFR 61.356]	Submit a report: Once initially and annually. Submit to the Administrator within 90 days after January 7, 1993, or by the initial startup for a new source with an initial startup after the effective date, a report summarizing the regulatory status of each waste stream subject to section 61.342 that is determined by the procedures specified in section 61.355(c) to contain benzene. The report shall include the information listed in 40 CFR 61.357(a)(1) through (4). [40 CFR 61.357]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	For compliance with 40 CFR 63 Subpart FF, if total annual benzene quantity from facility waste is equal to or greater than 10 MG/yr (11 ton/yr), then a waste stream may be exempt from management and treatment if the following conditions are demonstrated initially and annually: (1) the flow-weighted annual average benzene concentration for the waste stream is less than 10 ppmw, or (2) the waste stream is process wastewater that has a flow rate less than 0.02 liters per minute (0.005 gallons per minute), or (2) the annual wastewater quantity is less than 10 Mg/yr (11 ton/yr, or (3) the total annual benzene quantity in all waste streams chosen for exemption does not exceed 2.0 Mg/yr (2.2 ton/yr).[40 CFR 61.342(c)(2)] and [40 CFR 61.342(c)(3)]	Other: An owner or operator shall determine the total annual benzene quantity at the point of waste generation.[40 CFR 61.355(a)(1)&(a)(2)] and[40 CFR 61.355(a)(4)].	Recordkeeping by manual logging of parameter or storing data in a computer data system annually or at each total annual benzene quantity determination. Maintain records that identify each waste stream at the facility subject to this subpart, and indicate whether or not the waste is controlled for benzene emissions in accordance with this subpart. In addition the owner or operator shall maintain the following records: 1) For each waste stream not controlled for benzene emissions in accordance with this subpart, the records shall include all test results, measurements, calculations, and other documentation used to determine the following information for the waste stream: waste stream identification, water content, whether or not the waste stream is a process wastewater stream, annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity; 2) for each waste stream exempt from 40 CFR 61.342(c)(1) in accordance with 61.342(c)(3), the records shall include: a) all measurements, calculations, and other documentation used to determine that the continuous flow of process wastewater is less than 0.02 liters (0.005 gallons) per minute or the annual waste quantity of process wastewater is less than 10 Mg/yr (11 ton/yr) in accordance with 61.342(c)(3)(i), or b) all measurements, calculations, and other documentation used to determine that the sum of the total annual benzene quantity in all exempt waste streams does not exceed 2.0 Mg/yr (2.2 ton/yr) in accordance with 61.342(c)(3)(ii). [40 CFR 61.356]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	For compliance with 40 CFR 63 Subpart FF, 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 tons/yr), the owner or operator shall comply with the recordkeeping requirements of 61.356 and reporting requirements of 61.357 and repeat the determination of total annual benzene quantity from facility waste at least once per year and whenever there is a change in the process generating the waste that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more. [40 CFR 61.355(a)(4)]	Other: Determine the total annual benzene quantity once initially and annually. An owner or operator shall determine the total annual benzene quantity at the point of waste generation.[40 CFR 61.355(a)(1)&(a)(2)] and[40 CFR 61.355(a)(4)].	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and annually. Maintain records that identify each waste stream at the facility subject to this subpart, and indicate whether or not the waste is controlled for benzene emissions in accordance with this subpart. In addition the owner or operator shall maintain the following records: 1) For each waste stream not controlled for benzene emissions in accordance with this subpart, the records shall include all test results, measurements, calculations, and other documentation used to determine the following information for the waste stream: waste stream identification, water content, whether or not the waste stream is a process wastewater stream, annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity;. [40 CFR 61.356(b)(1)]	Submit a report: Once initially and annually. Submit to the Administrator within 90 days after January 7, 1993, or by the initial startup for a new source with an initial startup after the effective date, a report summarizing the regulatory status of each waste stream subject to section 61.342 that is determined by the procedures specified in section 61.355(c) to contain benzene. The report shall include the information listed in 40 CFR 61.357(a)(1) through (4). [40 CFR 61.357]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	For compliance with 40 CFR 63 Subpart FF, if the total annual benzene quantity from facility waste is less than 1 Mg/yr (1.1 ton/yr), then the owner or operator shall: 1) comply with the recordkeeping requirements of 40 CFR 61.356 and the reporting requirements of 40 CFR 61.357; and 2) repeat the determination of total annual benzene quantity from facility waste whenever there is a change in the process generating the waste that could cause the total annual benzene quantity from facility waste to increase to 1 MG/yr (1.1 ton/yr) or more. [40 CFR 61.355(a)(5)]	Other: Determine total annual benzene quantity once initially and whenever there is a change in the process generating the waste that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr (1.1 ton/yr) or more. An owner or operator shall determine the total annual benzene quantity at the point of waste generation. 40 CFR 61.355(a)(1) & (a)(2) and [40 CFR 61.355(a)(5)].	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially or at each total annual benzene quantity determination. Maintain records that identify each waste stream at the facility subject to this subpart, and indicate whether or not the waste is controlled for benzene emissions in accordance with this subpart. In addition the owner or operator shall maintain the following records: 1) For each waste stream not controlled for benzene emissions in accordance with this subpart, the records shall include all test results, measurements, calculations, and other documentation used to determine the following information for the waste stream: waste stream identification, water content, whether or not the waste stream is a process wastewater stream, annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity. [40 CFR 61.356]	Submit a report: Once initially and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from the facility to increase to 1 Mg/yr (1.1 ton/yr) or more. Submit to the Administrator within 90 days after January 7, 1993, or by the initial startup for a new source with an initial startup after the effective date, a report summarizing the regulatory status of each waste stream subject to section 61.342 that is determined by the procedures specified in section 61.355(c) to contain benzene. The report shall include the information listed in 40 CFR 61.357(a)(1) through (4). If the total annual benzene quantity from the facility is less than 1 MG/yr (1.1 ton/yr), then the owner or operator shall submit to the Administrator a report that updates the information listed in paragraphs (a)(1) through (a)(4) whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from the facility to increase to 1 Mg/yr (1.1 ton/yr) or more. [40 CFR 61.357(a)(and)(b)]

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Facility Specific Requirements**

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS1 Toluene Storage Tank (640,000 gallon capacity, Vertical Fixed Roof), controlled by Toluene Storage/Unloading Condenser (CD1)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless the external surface of the tank is painted and maintained white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	No person shall cause, suffer, allow, or permit the storage of any applicable VOC in any stationary storage tank having a maximum capacity of 10,000 gallons (37,850 liters) or greater unless, in addition to meeting the requirement in N.J.A.C. 7:27-16.2(b)1, such stationary storage tank is equipped with a conservation vent, as determined in accordance with the procedures for using Table 2A of N.J.A.C. 7:27-16.2. [N.J.A.C. 7:27-16.2(b)2]	None.	None.	None.
3	No person shall cause, suffer, allow, or permit the storage of any VOC in any stationary storage tank subject to the provisions of N.J.A.C. 7:27-16.2(b) in Range II and equipped with gauging and/or sampling systems unless such systems are vapor-tight. [N.J.A.C. 7:27-16.2(d)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 invoices / bills of lading / certificate of analysis per delivery showing the type of VOC stored. Vapor pressure of each VOC stored in each tank based on lab analysis or Material Safety Data sheet kept on site. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] & [N.J.A.C. 7:27-22.16(o)]	None.
5	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. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
6	Tank contents limited to Toluene. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Total Throughput <= 42,650 tons/yr (85,300,000 lb/yr) of Toluene for the Toluene Storage Tank (E1). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material feed/flow monitoring each month during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation of the monthly and year-to-date throughput. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The permittee is authorized to operate the Toluene Storage Tank (E1) without the associated control device (CD1) for up to a 7 day period if the control device is non-operational. However, no material may be transferred into the tank during the 7 day period. The control device must be operational within 7 days or the tank taken out of use. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	Temperature at the Condenser Exit (Product Side) <= -20 degrees C for Toluene Storage/Unloading Condenser 02-CD-01 (CD-1). [N.J.A.C. 7:27-22.16(e)]	Temperature at the Condenser Exit (Product Side): Monitored by temperature instrument continuously. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range. [N.J.A.C. 7:27-22.16(o)]	Temperature at the Condenser Exit (Product Side): 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.
10	VOC (Total) >= 95 % destruction efficiency. Design efficiency for the Toluene Storage/Unloading Condenser (CD1). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Toluene >= 95 % destruction efficiency. Design efficiency for the Toluene Storage/Unloading Condenser (CD1). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS2 Toluene Recycle Tank (2,200 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions. [N.J.A.C. 7:27-16.16(g)1].	None.
2	Raw materials limited to Toluene. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Throughput <= 128,000 tons/yr (256,000,000 lb/yr) of Toluene for the Toluene Recycle Tank (E2). [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by material feed/flow monitoring each month during operation, based on a 12 calendar month period. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: 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.
4	VOC (Total) <= 0.15 lb/hr. Maximum emission rate for the Toluene Recycle Tank (E2). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	HAPs (Total) <= 0.15 lb/hr. Maximum emission rate for the Toluene Recycle Tank (E2) based on Toluene. [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
6	Toluene <= 0.15 lb/hr. Maximum emission rate of this HAP for the Toluene Recycle Tank (E2). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS3 Chlorinator Off-Gas/Toluene Recovery Decanter, controlled by South Caustic Scrubber (CD3)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions. [N.J.A.C. 7:27-16.16(g)1].	None.
2	Concentration of Chemical Additive in Scrubbing Solution >= 1 % for South Caustic Scrubber (CD3). [N.J.A.C. 7:27-22.16(a)]	Concentration of Chemical Additive in Scrubbing Solution: Monitored by grab sampling once per calendar day during operation and perform an analysis once per day. [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 calendar day during operation of the sample concentration. [N.J.A.C. 7:27-22.16(o)]	None.
3	Pressure Drop Across the Scrubber >= 0.03 and Pressure Drop Across the Scrubber <= 10 inches w.c. for the packed tower section of the South Caustic Scrubber (CD3). From BOP080003. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by manual logging of parameter once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Scrubbing Medium Flow Rate \geq 10 and Scrubbing Medium Flow Rate \leq 100 gal/min of water at the inlet to the packed tower section of the South Caustic Scrubber (CD3). [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [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 daily. [N.J.A.C. 7:27-22.16(o)]	None.
5	Scrubbing Medium Inlet Pressure \geq 50 and Scrubbing Medium Inlet Pressure \leq 130 psig. Inlet water pressure (circulation pump) to the packed tower section of the South Caustic Scrubber (CD3), maintained as a back-up in the event that the flow meter for the packed tower portion of the scrubber is inoperative. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Inlet Pressure: Monitored by pressure drop instrument continuously when the flow meter cannot be read. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range current/voltage output. The flow rate meter shall be operating no less than 90% of the time. The remaining 10%, when the flow meter is inoperative, a back-up reading for inlet water pressure shall be monitored and recorded at least once per day. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Inlet Pressure: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation when the flow meter cannot be read. [N.J.A.C. 7:27-22.16(o)]	None.
6	Scrubbing Medium Flow Rate \geq 100 gal/min of water at the inlet to the venturi section of the South Caustic Scrubber (CD3). [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [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. [N.J.A.C. 7:27-22.16(o)]	None.
7	Scrubbing Medium Inlet Pressure \geq 50 and Scrubbing Medium Inlet Pressure \leq 130 psig. Inlet water pressure (circulation pump) to the venturi section of the South Caustic Scrubber (CD3), maintained as a back-up in the event that the flow meter for the venturi portion of the scrubber is inoperative. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Inlet Pressure: Monitored by pressure drop instrument continuously when the flow meter cannot be read. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range current/voltage output. The flow rate meter shall be operating no less than 90% of the time. The remaining 10%, when the flow meter is inoperative, a back-up reading for inlet water pressure shall be monitored and recorded at least once per day. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Inlet Pressure: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation when the flow meter cannot be read. [N.J.A.C. 7:27-22.16(o)]	None.
8	VOC (Total) \leq 3.42 lb/hr. Maximum emission rate for the Toluene Decanter (E3). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Benzene <= 0.08 lb/hr. Maximum emission rate of this HAP for the Toluene Decanter (E3). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	Benzyl chloride <= 0.08 lb/hr. Maximum emission rate of this HAP for the Toluene Decanter (E3). From BOP140001. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	Chlorine <= 0.4 lb/hr. Maximum emission rate of this HAP for the Toluene Decanter (E3). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	HCl Emissions <= 0.4 lb/hr. Maximum emission rate of this HAP for the Toluene Decanter (E3). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	Toluene <= 2.74 lb/hr. Maximum emission rate of this HAP for the Toluene Decanter (E3). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS4 Toluene Stripper, controlled by South Caustic Scrubber (CD3) & Toluene Stripper Venturi Scrubber (CD4)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions. [N.J.A.C. 7:27-16.16(g)1].	None.
2	Concentration of Chemical Additive in Scrubbing Solution >= 1 % for South Caustic Scrubber (CD3). [N.J.A.C. 7:27-22.16(a)]	Concentration of Chemical Additive in Scrubbing Solution: Monitored by grab sampling once per calendar day during operation and perform an analysis once per day. [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 calendar day during operation of the sample concentration. [N.J.A.C. 7:27-22.16(o)]	None.
3	Pressure Drop Across the Scrubber >= 0.03 and Pressure Drop Across the Scrubber <= 10 inches w.c. for the packed tower section of the South Caustic Scrubber (CD3). From BOP080003. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by manual logging of parameter once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Scrubbing Medium Flow Rate \geq 10 and Scrubbing Medium Flow Rate \leq 100 gal/min of water at the inlet to the packed tower section of the South Caustic Scrubber (CD3). [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [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 daily. [N.J.A.C. 7:27-22.16(o)]	None.
5	Scrubbing Medium Inlet Pressure \geq 50 and Scrubbing Medium Inlet Pressure \leq 130 psig. Inlet water pressure (circulation pump) to the packed tower section of the South Caustic Scrubber (CD3), maintained as a back-up in the event that the flow meter for the packed tower portion of the scrubber is inoperative. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Inlet Pressure: Monitored by pressure drop instrument continuously when the flow meter cannot be read. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range current/voltage output. The flow rate meter shall be operating no less than 90% of the time. The remaining 10%, when the flow meter is inoperative, a back-up reading for inlet water pressure shall be monitored and recorded at least once per day. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Inlet Pressure: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation when the flow meter cannot be read. [N.J.A.C. 7:27-22.16(o)]	None.
6	Scrubbing Medium Flow Rate \geq 100 gal/min of water at the inlet to the venturi section of the South Caustic Scrubber (CD3). [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [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. [N.J.A.C. 7:27-22.16(o)]	None.
7	Scrubbing Medium Inlet Pressure \geq 50 and Scrubbing Medium Inlet Pressure \leq 130 psig. Inlet water pressure (circulation pump) to the venturi section of the South Caustic Scrubber (CD3), maintained as a back-up in the event that the flow meter for the venturi portion of the scrubber is inoperative. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Inlet Pressure: Monitored by pressure drop instrument continuously when the flow meter cannot be read. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range current/voltage output. The flow rate meter shall be operating no less than 90% of the time. The remaining 10%, when the flow meter is inoperative, a back-up reading for inlet water pressure shall be monitored and recorded at least once per day. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Inlet Pressure: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation when the flow meter cannot be read. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Scrubbing Medium Flow Rate \geq 1 gal/min of water at the inlet of the Toluene Stripper Venturi Scrubber (CD4). [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. In the event that the flow meter is inoperative, a back-up meter reading for inlet water pressure shall be monitored and recorded at least once per day. [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. [N.J.A.C. 7:27-22.16(o)]	None.
9	Scrubbing Medium Inlet Pressure \geq 1 psig for the Toluene Stripper Venturi Scrubber (CD4), as a back-up in the event that the flow meter is inoperative. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Inlet Pressure: Monitored by pressure drop instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. The flow meter shall be operating no less than 90% of the time. The remaining 10%, when the flow meter is inoperative, a back-up reading for inlet water pressure shall be monitored and recorded at least once per day. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Inlet Pressure: 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.
10	VOC (Total) \leq 0.854 lb/hr. Maximum emission rate for the Toluene Stripper (E4). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	Benzene \leq 0.02 lb/hr. Maximum emission rate of this HAP for Toluene Stripper (E4). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	Benzyl chloride \leq 0.02 lb/hr. Maximum emission rate of this HAP for Toluene Stripper (E4). From BOP140001. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	Chlorine \leq 0.1 lb/hr. Maximum emission rate of this HAP for Toluene Stripper (E4). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	HCl Emissions \leq 0.1 lb/hr. Maximum emission rate of this HAP for Toluene Stripper (E4). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	Toluene \leq 0.684 lb/hr. Maximum emission rate of this HAP for Toluene Stripper (E4). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and

OS4

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

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS5 South BzCl Refining Column, OS6 North BzCl Refining Column

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions. [N.J.A.C. 7:27-16.16(g)1].	None.
2	See OS Summary for material throughput for North and South BzCl Refining Columns (E5 & E6). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 1.09 lb/hr. Maximum emission rate for North and South BzCl Refining Columns (E5 & E6, each). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Benzyl chloride <= 0.01 lb/hr. Maximum emission rate of this HAP for North and South BzCl Refining Columns (E5 & E6, each). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Chlorine <= 0.1 lb/hr. Maximum emission rate of this HAP for North and South BzCl Refining Columns (E5 & E6, each). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	HCl Emissions <= 0.1 lb/hr. Maximum emission rate of this HAP for North and South BzCl Refining Columns (E5 & E6, each). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Toluene <= 0.2 lb/hr. Maximum emission rate of this HAP for North and South BzCl Refining Columns (E5 & E6, each). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS7 North Benzal Chloride Residue Tank, OS29 South Benzal Chloride Residue Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless the external surface of the tank is painted and maintained white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 invoices / bills of lading / certificate of analysis per delivery showing the type of VOC stored. Vapor pressure of each VOC stored in each tank based on lab analysis or Material Safety Data sheet kept on site. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] & [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	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. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
4	Total Throughput <= 7,500 tons/yr (15,000,000 lb/yr) of Benzal Chloride Residue for the North and South Benzal Chloride Residue Tanks (E7 & E23) combined. From BOP120002. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by tank gauging and/or metering each month during operation.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation of the monthly and year-to-date throughput. [N.J.A.C. 7:27-22.16(o)]	None.
5	Total Throughput <= 60,000 gal/yr of Toluene for the North and South Benzal Chloride Residue Tanks (E7 & E23) combined. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by tank gauging and/or metering each month during operation.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation of the monthly and year-to-date throughput. [N.J.A.C. 7:27-22.16(o)]	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS8 North BzCl Storage Tank (50,000 gallon capacity, Domed Vertical Fixed Roof)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a) records that specify 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 invoices / bills of lading / certificate of analysis per delivery showing the type of VOC stored. Vapor pressure of each VOC stored in each tank based on lab analysis or Material Safety Data sheet kept on site. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] & [N.J.A.C. 7:27-22.16(o)]	None.
2	Tank contents limited to Benzyl Chloride (non-applicable VOC, vapor pressure < 0.02 psi at standard conditions). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Throughput <= 30,000 tons/yr (60,000,000 lb/yr) of benzyl chloride for the North BzCl Storage Tank (E8). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material feed/flow monitoring each month during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation of the monthly and year-to-date throughput. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS9 West BzCl Storage Tank (25,000 gallon capacity, Vertical Fixed Roof), OS10 East BzCl Storage Tank (25,000 gallon capacity, Vertical Fixed Roof)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a) records that specify 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 invoices / bills of lading / certificate of analysis per delivery showing the type of VOC stored. Vapor pressure of each VOC stored in each tank based on lab analysis or Material Safety Data sheet kept on site. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] & [N.J.A.C. 7:27-22.16(o)]	None.
2	Tank contents limited to Benzyl Chloride (non-applicable VOC, vapor pressure < 0.02 psi at standard conditions). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Throughput <= 55,000 tons/yr (110,000,000 lb/yr) of Benzyl Chloride for the West BzCl Storage Tank (E9) & East BzCl Storage Tank (E10). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material feed/flow monitoring each month during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation of the monthly and year-to-date throughput. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS18 HCl Storage Tank 03 (29,000 gallon capacity, Domed Vertical Fixed Roof), controlled by South Caustic Scrubber (CD3) and Venturi Scrubber (CD6, Backup), OS20 HCl Storage Tank 04 (29,000 gallon capacity, Domed Vertical Fixed Roof), controlled by South Caustic Scrubber (CD3) and Venturi Scrubber (CD6, Backup), OS22 HCl Storage Tank 05 (29,000 gallon capacity, Domed Vertical Fixed Roof), controlled by South Caustic Scrubber (CD3) and Venturi Scrubber (CD6, Backup)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank contents limited to Muriatic Acid (32% HCl). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Total Throughput <= 63,000 tons/yr (126,000,000 lb/yr) of Muriatic Acid (32% HCl) for the HCl Storage Tanks (E14-E16). [N.J.A.C. 7:27-22.16(e)]	Other: Tank gauging and/or metering each month during operation. [N.J.A.C. 7:27-22.16(o)].	Total Throughput: 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.
3	Concentration of Chemical Additive in Scrubbing Solution >= 1 % for South Caustic Scrubber (CD3). [N.J.A.C. 7:27-22.16(a)]	Concentration of Chemical Additive in Scrubbing Solution: Monitored by grab sampling once per calendar day during operation and perform an analysis once per day. [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 calendar day during operation of the sample concentration. [N.J.A.C. 7:27-22.16(o)]	None.
4	Pressure Drop Across the Scrubber >= 0.03 and Pressure Drop Across the Scrubber <= 10 inches w.c. for the packed tower section of the South Caustic Scrubber (CD3). From BOP080003. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by manual logging of parameter once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	Scrubbing Medium Flow Rate >= 10 and Scrubbing Medium Flow Rate <= 100 gal/min of water at the inlet to the packed tower section of the South Caustic Scrubber (CD3). [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [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 daily. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Scrubbing Medium Inlet Pressure \geq 50 and Scrubbing Medium Inlet Pressure \leq 130 psig. Inlet water pressure (circulation pump) to the packed tower section of the South Caustic Scrubber (CD3), maintained as a back-up in the event that the flow meter for the packed tower portion of the scrubber is inoperative. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Inlet Pressure: Monitored by pressure drop instrument continuously when the flow meter cannot be read. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range current/voltage output. The flow rate meter shall be operating no less than 90% of the time. The remaining 10%, when the flow meter is inoperative, a back-up reading for inlet water pressure shall be monitored and recorded at least once per day. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Inlet Pressure: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation when the flow meter cannot be read. [N.J.A.C. 7:27-22.16(o)]	None.
7	Scrubbing Medium Flow Rate \geq 100 gal/min of water at the inlet to the venturi section of the South Caustic Scrubber (CD3). [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [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. [N.J.A.C. 7:27-22.16(o)]	None.
8	Scrubbing Medium Inlet Pressure \geq 50 and Scrubbing Medium Inlet Pressure \leq 130 psig. Inlet water pressure (circulation pump) to the venturi section of the South Caustic Scrubber (CD3), maintained as a back-up in the event that the flow meter for the venturi portion of the scrubber is inoperative. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Inlet Pressure: Monitored by pressure drop instrument continuously when the flow meter cannot be read. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range current/voltage output. The flow rate meter shall be operating no less than 90% of the time. The remaining 10%, when the flow meter is inoperative, a back-up reading for inlet water pressure shall be monitored and recorded at least once per day. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Inlet Pressure: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation when the flow meter cannot be read. [N.J.A.C. 7:27-22.16(o)]	None.
9	The (once through) venturi scrubber (CD6) is a back up control device in the event the South Caustic scrubber (CD3) is down for maintenance. No transfer to the storage tank will take place while CD6 is operating as the backup control device for CD3. From BOP170002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Flowrate of Scrubbing Medium at Scrubber Inlet \geq 0.12 gal/min. Minimum acceptable water flow across (once through) venturi scrubber (CD6), based on engineering assessment, to guarantee HCl emission reductions of 99 percent or greater from HCl storage tank. From BOP170002. [40 CFR 63.9020(e)(1)(i)] &. [40 CFR 63.9020(e)(3)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Monitored by scrubber flow rate instrument continuously. Install, operate, and maintain the continuous monitor according to the requirements in 40 CFR 63.9025(a). [40 CFR 63.9025(a)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation as a backup control device to the South Caustic Scrubber (CD3). Keep records of daily average (once through) scrubber inlet liquid flow rate. [40 CFR 63.9035(b)(1)]	None.

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

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS23 BzCl Loading Dock - Trucks, controlled by BzCl/HCl Loading Docks Scrubber (CD5)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Throughput <= 250 gal/min of Benzyl Chloride for the BzCl Truck Loading Dock (E17). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Total Throughput <= 30,000 tons/yr (60,000,000 lb/yr) of Benzyl Chloride for the BzCl Truck and Rail Loading Docks (E17 & E18). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material balance at the approved frequency (per loading). [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event (manual pumping records or electronic data storage). The permittee shall calculate the year-to-date throughput each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
3	Pump Inlet Pressure >= 20 and Pump Inlet Pressure <= 60 psig of the water at the inlet to the BzCl/HCl Loading Docks Packed Tower Scrubber (CD5). [N.J.A.C. 7:27-22.16(e)]	Pump Inlet Pressure: Monitored by pressure drop instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [N.J.A.C. 7:27-22.16(o)]	Pump Inlet Pressure: 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.
4	Flowrate >= 1 gal/min for the makeup water for the BzCl/HCl Loading Docks Packed Tower Scrubber (CD5). [N.J.A.C. 7:27-22.16(e)]	Flowrate: Monitored by scrubber flow rate instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [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 calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	In the event that the flow meter cannot be read, makeup water pressure shall be >= 1 psig for the BzCl/HCl Loading Docks Packed Tower Scrubber (CD5). [N.J.A.C. 7:27-22.16(a)]	Monitored by pressure drop instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. The flow rate meter shall be operating no less than 90% of the time. The remaining 10%, when the flow meter for the make-up water is inoperative, a back-up reading for make-up water pressure shall be monitored and recorded at least once per day. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter once per calendar day during operation when flow meter is inoperative. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Pressure Drop Across the Scrubber ≥ 1 and Pressure Drop Across the Scrubber ≤ 10 inches w.c. for the BzCl/HCl Loading Docks Packed Tower Scrubber (CD5). [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by manual logging of parameter once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	VOC (Total) ≤ 0.04 lb/hr. Maximum emission rate for the BzCl Truck Loading Dock (E17). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Benzyl chloride ≤ 0.04 lb/hr. Maximum emission rate of this HAP for the BzCl Truck Loading Dock (E17). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS24 BzCl Loading Dock - Railcars, controlled by BzCl/HCl Loading Docks Scrubber (CD5)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Throughput <= 250 gal/min of Benzyl Chloride for the BzCl Railcar Loading Dock (E18). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Total Throughput <= 30,000 tons/yr (60,000,000 lb/yr) of Benzyl Chloride for the BzCl Truck Loading Dock and BzCl Rail Loading Dock (E17 and E18) combined. [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material balance at the approved frequency (per loading). [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event (manual pumping records or electronic data storage). The permittee shall calculate the year-to-date throughput each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
3	Pump Inlet Pressure >= 20 and Pump Inlet Pressure <= 60 psig of the water at the inlet to the BzCl/HCl Loading Docks Packed Tower Scrubber (CD5). [N.J.A.C. 7:27-22.16(e)]	Pump Inlet Pressure: Monitored by pressure drop instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [N.J.A.C. 7:27-22.16(o)]	Pump Inlet Pressure: 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.
4	Flowrate >= 1 gal/min for the makeup water for the BzCl/HCl Loading Docks Packed Tower Scrubber (CD5). [N.J.A.C. 7:27-22.16(e)]	Flowrate: Monitored by scrubber flow rate instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [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 calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	In the event that the flow meter cannot be read, makeup water pressure shall be >= 1 psig for the BzCl/HCl Loading Docks Packed Tower Scrubber (CD5). [N.J.A.C. 7:27-22.16(a)]	Monitored by pressure drop instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. The flow rate meter shall be operating no less than 90% of the time. The remaining 10%, when the flow meter for the make-up water is inoperative, a back-up reading for make-up water pressure shall be monitored and recorded at least once per day. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter once per calendar day during operation when flow meter is inoperative. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Pressure Drop Across the Scrubber ≥ 1 and Pressure Drop Across the Scrubber ≤ 10 inches w.c. for the BzCl/HCl Loading Docks Packed Tower Scrubber (CD5). [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by manual logging of parameter once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	VOC (Total) ≤ 0.07 lb/hr. Maximum emission rate for the BzCl Railcar Loading Dock (E18). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Benzyl chloride ≤ 0.07 lb/hr. Maximum emission rate of this HAP for the BzCl Railcar Loading Dock (E18). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS25 HCl Loading Dock 01, OS26 HCl Loading Dock 02

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Throughput <= 250 gal/min of Muriatic Acid (32% HCl Solution) for the HCl Loading Docks (E19 & E20), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Total Throughput <= 63,000 tons/yr (126,000,000 lb/yr) of HCl the HCl Loading Docks (E19 & E20), each. [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material balance at the approved frequency (per loading). [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event (manual pumping records or electronic data storage). The permittee shall calculate the year-to-date throughput each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
3	HCl Emissions <= 0.54 lb/hr. Maximum emission rate of this HAP for the HCl Loading Docks (E19 & E20), each. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS27 BzCl Drum Loading

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Throughput <= 9,200 tons/yr (18,400,000 lb/yr) of Benzyl Chloride for BzCl Drum Loading (E21). [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by the amount of product received per loading.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: 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.
2	Total Throughput <= 2,200 tons/yr (4,400,000 lb/yr) of Benzaldehyde for BzCl Drum Loading (E21). [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by the amount of product received per loading.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: 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 Throughput <= 25,000 tons/yr (50,000,000 lb/yr) of Santicizer 160 for BzCl Drum Loading (E21). [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by the amount of product received per loading.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: 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.
4	Total Throughput <= 10,000 tons/yr (20,000,000 lb/yr) of Santicizer 261 for BzCl Drum Loading (E21). [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by the amount of product received per loading.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: 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.
5	Total Throughput <= 15,000 tons/yr (30,000,000 lb/yr) of Santicizer 278 for BzCl Drum Loading (E21). [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by the amount of product received per loading.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: 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.
6	Total Throughput <= 50,000 tons/yr (100,000,000 lb/yr) of other VOC blend products with VP < 0.01 psia for BzCl Drum Loading (E21). [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by the amount of product received per loading.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: 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.
7	Total Throughput <= 27,500 lb/hr of any of the following materials: Benzaldehyde, Benzyl Chloride, Santicizer 160, Santicizer 261, Santicizer 278, or any other VOC blend products with VP < 0.01 psia. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by the amount of product received per loading.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: 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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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Total Throughput <= 27,500 lb/hr of any of following materials: Sancticizer 160, Benzyl Chloride, Benzaldehyde, Santicizer 261, Santicizer 278, or any other VOC blend products with a VP < 0.01 psia. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by weight per loading.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency (the weight drummed per loading). The permittee shall calculate the daily average pounds per hour loaded. [N.J.A.C. 7:27-22.16(o)]	None.
9	VOC (Total) <= 0.81 lb/hr. Maximum emission rate for the BzCl Drum Loading (E21). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	Benzyl chloride <= 0.29 lb/hr. Maximum emission rate of this HAP for the BzCl Drum Loading (E21). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U1 Benzyl Chloride, subject to NESHAP FF and MACTS Subparts F, G, and H

Operating Scenario: OS28 Benzaldehyde Storage Tank (10,000 gallon capacity, Vertical Fixed Roof)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless the external surface of the tank is painted and maintained white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 invoices / bills of lading / certificate of analysis per delivery showing the type of VOC stored. Vapor pressure of each VOC stored in each tank based on lab analysis or Material Safety Data sheet kept on site. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] & [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
3	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. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
4	Total Throughput <= 3,500 tons/yr (7,000,000 lb/yr) of Benzaldehyde for the Benzaldehyde Storage Tank (E22). [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by tank gauging and/or metering each month during operation. [N.J.A.C. 7:27-22.16(o)].	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation of the monthly and year-to-date throughput. [N.J.A.C. 7:27-22.16(o)]	None.
5	Total Throughput <= 7,500 tons/yr (15,000,000 lb/yr) of Benzal Chloride Residue. From BOP120002. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by tank gauging and/or metering each month during operation. [N.J.A.C. 7:27-22.16(o)].	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation of the monthly and year-to-date throughput. [N.J.A.C. 7:27-22.16(o)]	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Production Rate <= 48,875 tons/yr (97,750,000 lb/yr) of Phosphate Esters production. [N.J.A.C. 7:27-22.16(a)]	Total Production Rate: Monitored by calculations each month during operation. [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 each month during operation. In a calendar year, the permittee shall add the current month's pounds to the previous month's pounds to calculate the year-to-date pounds. [N.J.A.C. 7:27-22.16(o)]	None.
2	Phosphorus oxychloride <= 72,300 lb/day shall be fed to the reactor system. [N.J.A.C. 7:27-22.16(e)]	Phosphorus oxychloride: Monitored by material balance daily. [N.J.A.C. 7:27-22.16(o)]	Phosphorus oxychloride: 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.
3	Phosphorus oxychloride <= 3,013 lb/hr. Combined average raw material throughput fed to the reactor system for OS8-37 and OS39-OS46 combined. [N.J.A.C. 7:27-22.16(a)]	Phosphorus oxychloride: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Phosphorus oxychloride: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. The permittee shall calculate the daily average pounds per hour throughput of Phosphorus Oxychloride based on a 24-hour period. [N.J.A.C. 7:27-22.16(o)]	None.
4	VOC (Total) <= 10.7 tons/yr. Annual emission limit for Phosphate Esters equipment. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	HAPs (Total) <= 0.394 tons/yr. Annual emission limit for Phosphate Esters equipment based on HCl and Phenol. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	HCl Emissions <= 0.074 tons/yr. Annual emission limit of this HAP for Phosphate Esters equipment. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Phenol <= 0.32 tons/yr. Annual emission limit of this HAP for Phosphate Esters equipment. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	See GR1 for MACT Subpart A requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

U3 Phosphate Esters, subject to MACT Subpart FFFF

OS Summary

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The facility is subject to 40 CFR 63 Subpart FFFF because it operates miscellaneous organic chemical manufacturing process units (MCPU) in the Phosphate Esters Process that are located at a major source of HAPs as defined in section 112(a) of the Clean Air Act (CAA). The notice of compliance status for 40 CFR 63 Subpart FFFF was submitted (postmarked) October 2, 2008. [40 CFR 63.2435]	None.	None.	None.
10	For compliance with 40 CFR 63 Subpart FFFF, for Group 1 storage tanks (capacity greater than or equal to 10,000 gallons and maximum true vapor pressure of HAP greater than 1.0 psia) with stored material true vapor pressure of total HAP greater than or equal to 11.11 psia (greater than or equal to 76.6 kpa): reduce total HAP emissions by greater than or equal to 95% by weight or to less than or equal to 20 ppmv of total organic compounds (TOC) or organic HAP by venting emissions through a closed vent system to any combination of control devices. Phosphate Esters has no Group 1 storage tanks. [40 CFR 63.FFFF(2470)]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2470].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2470]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	For compliance with 40 CFR 63 Subpart FFFF, for storage tanks with capacity greater than or equal to 10,000 gallons and stored material true vapor pressure of total HAP less than 76.6 kpa (less than 11.11 psi): either comply with the floating roof requirements in 40 CFR 63 Subpart WW - National Emission Standards for Storage Vessels (Tanks), except as specified in 40 CFR 63.2470; or reduce total HAP emissions by greater than or equal to 95% by weight or to less than or equal to 20 ppmv of total organic compounds (TOC) or organic HAP by venting emissions through a closed vent system to any combination of control devices. Phosphate Esters has no affected storage tanks. [40 CFR 63.FFFF(2470)]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2470].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2470]
12	For compliance with 40 CFR 63 Subpart FFFF, for Group 1 continuous process vents, reduce emissions of total HAP by greater than or equal to 98% by weight or to an outlet process concentration of less than or equal to 20 ppmv as organic HAP or TOC by venting emissions through a closed-vent system to any combination of control devices. There are no Group 1 continuous process vents in Phosphate Esters. [40 CFR 63.2455]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2455].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2455]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	For compliance with 40 CFR 63 Subpart FFFF, for Group 2 continuous process vents: when devices such as absorbers or condensers are used to maintain a total resource effectiveness (TRE) level to greater than 1.9 but less than or equal to 5.0, comply with the requirements in Section 993, 40 CFR 63 Subpart SS - National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or Process. Phosphate Esters has no affected sources. [40 CFR 63.2455]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2455].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2455]
14	For compliance with 40 CFR 63 Subpart FFFF, for collective uncontrolled organic HAP emissions for all batch process vents greater than or equal to 10,000 lbs/yr: either reduce collective uncontrolled organic HAP emissions from the sum of all batch process vents within the process by greater than or equal to 98% by weight by venting emissions through one or more closed-vent systems to any combination of control devices; or reduce collective uncontrolled organic HAP emissions from the sum of all batch process vents within the process by greater than or equal to 95% by weight by venting emissions through one or more closed-vent systems to any combination of recovery devices or a biofilter, or comply with the requirements of 40 CFR 63 Subpart WW for any process tank. There are no batch process vents in the Phosphate Esters MCPU. [40 CFR 63.2460]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2460].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2460]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	For compliance with 40 CFR 63 Subpart FFFF, for Group 1 transfer rack that loads more than 0.17 million gallons/year (0.65 million liters/year) of liquids containing organic HAP with a weighted average partial pressure greater than or equal to 1.5 psia: reduce emissions of total organic HAP by greater than or equal to 98% by weight or to an outlet concentration less than or equal to 20 ppmv as organic HAP or TOC by venting through a closed-vent system to any combination of control devices. There are no Group 1 MON Transfer Racks. [40 CFR 63.2475]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2475].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2475]
16	For compliance with 40 CFR 63 Subpart FFFF, for Group 1 transfer racks, as an alternative, use a vapor balancing system designed and operated to collect organic HAP vapors displaced from tank trucks and railcars during loading and route the collected HAP vapors to the storage tank from which the liquid being loaded originated or to another storage tank collected by a common carrier. There are no Group 1 MON Transfer Racks. [40 CFR 63.FFFF(2475)]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2475].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2475]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	For compliance with 40 CFR 63 Subpart FFFF, for all equipment that is in organic HAP service: comply with the requirements of 40 CFR 63 Subpart UU - National Emission Standards for Equipment Leaks Control Level, except as specified in 40 CFR 63.2480(b) and (d); or comply with the requirements of 40 CFR 63 Subpart H - National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks, except as specified in 40 CFR 63.2480(b) and (d); or comply with the requirements of 40 CFR 65 Subpart F - Equipment Leaks, except as specified in 40 CFR 63.2480(c) and (d). The facility has elected to comply with the requirements in 40 CFR 63 Subpart H which are detailed in Subject Item Group 3. The Notice of Compliance Status with respect to utilizing 40 CFR 63 Subpart H for compliance with 40 CFR 63 Subpart FFFF was submitted (postmarked) August 7, 2008. [40 CFR 63.2480]	Monitored by periodic leak detection monitoring at the approved frequency. Monitor Leak Detection and Repair (LDAR) components in compliance with 40 CFR 63 Subpart UU, or 40 CFR 63 Subpart H, or 40 CFR 65 Subpart F. [40 CFR 63.2480]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Records frequency and retention per 40 CFR 63 Subpart UU, or 40 CFR 63 Subpart H, or 40 CFR 65 Subpart F. [40 CFR 63.2480]	Submit a report: Other. Submit semi-annual report by February 28 and August 31 and keep for five (5) years. [40 CFR 63.2480]
18	For compliance with 40 CFR 63 Subpart FFFF, submit semi-annual compliance reports for the periods January 1 through June 30 and July 1 through December 31 no later than August 31 and February 28, respectively. The compliance report shall contain the information specified in 40 CFR 63.2520 paragraphs (e)(1) through (e)(10). [40 CFR 63.2525]	None.	Other: Maintain each applicable record as specified in 40 CFR 2525 paragraphs (a) through (k) for five (5) years [40 CFR 63.2525].	Submit a report: As per the approved schedule. Submit MON semi-annual reports to the New Jersey Department of Environmental Protection, Air Compliance and Enforcement by August 31 and February 28. [40 CFR 63.2525]
19	For compliance with 40 CFR 63 Subpart FFFF, Heat exchangers shall comply with the requirements of 40 CFR 63.104, except as specified in 63.2490. Monitor MON affected heat exchangers for leakage. Monitoring to be conducted in accordance with monitoring protocols. Phosphate Esters contains no MON affected heat exchangers. [40 CFR 63.2490]	None.	Other: Maintain up-to-date applicability records. [40 CFR 63.2490].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2490]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	For compliance with 40 CFR 63 Subpart FFFF, for process wastewater streams and liquid streams in open systems, comply with the requirements in Section 63.132 through 63.149, 40 CFR 63 Subpart G - National Emission Standards for the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations and Wastewater, except as specified in 40 CFR 63.2485. There are no Group 1 wastewater streams. [40 CFR 63.2485]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2485].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2485]
21	For compliance with 40 CFR 63 Subpart FFFF, for maintenance wastewater streams, comply with the requirements in Section 63.105, 40 CFR 63 Subpart F - National Emission Standards for Organic Hazardous Air Pollutants for the Synthetic Organic Chemical Manufacturing Industry. There are no Group 1 maintenance wastewater streams. [40 CFR 63.2485]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2485].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2485]
22	The emission limits in Table 4 of 40 CFR 63 Subpart FFFF for control devices used to control emissions from storage tanks do not apply during periods of planned routine maintenance. Periods of planned routine maintenance of each control device, during which the control device does not meet the emission limit specified in Table 4, must not exceed 240 hours per year (hr/yr). You may submit an application to the Administrator requesting an extension of this time limit to a total of 360 hr/yr. The application must explain why the extension is needed, it must indicate that no material will be added to the storage tank between the time the 240-hr limit is exceeded and the control device is again operational, and it must be submitted at least 60 days before the 240-hr limit will be exceeded. [40 CFR 63.2470(d)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The facility shall keep records of the hours of planned routine maintenance of each control device, during which the control device does not meet the emission limit specified in Table 4. [N.J.A.C. 7:27-22.16(o)] &. [40 CFR 63.2470(d)]	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS1 Butanol Storage Tank (25,000 gallon capacity, Horizontal Fixed Roof)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless the external surface of the tank is painted and maintained white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 invoices / bills of lading / certificate of analysis per delivery showing the type of VOC stored. Vapor pressure of each VOC stored in each tank based on lab analysis or Material Safety Data sheet kept on site. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] & [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	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. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
4	Tank contents limited to Butanol and Iso-butyl Alcohol. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Total Throughput <= 6,100 tons/yr (12,200,000 lb/yr) of Butanol for Butanol Storage Tank (E201). [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by material balance once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. The permittee shall calculate and record the year-to-date material throughput each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
6	Total Throughput <= 6,000 tons/yr (12,000,000 lb/yr) of Iso-butyl Alcohol for Butanol Storage Tank (E201). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material balance once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. The permittee shall calculate and record the year-to-date material throughput each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS2 Phenol Storage Tank (50,000 gallon capacity, Domed Vertical Fixed Roof)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall maintain tank under a controlled elevated temperature. [N.J.A.C. 7:27-16.2(f)1]	None.	None.	None.
2	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 invoices / bills of lading / certificate of analysis per delivery showing the type of VOC stored. Vapor pressure of each VOC stored in each tank based on lab analysis or Material Safety Data sheet kept on site. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] & [N.J.A.C. 7:27-22.16(o)]	None.
3	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. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Tank contents limited to any process chemical liquid or process water with a vapor pressure less than or equal to 0.02 psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by lab analysis, assay report, or Material Safety Data Sheet once for each type of liquid stored, added or changed out.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system daily of the tank contents. Maintain records of the vapor pressure at standard conditions for each type of material stored in the tanks which contain applicable VOCs, and for non-applicable VOCs, list non-applicable VOC vapor pressure ≤ 0.02 psia. Vapor pressure records can include lab analysis, assay reports or Material Safety Data Sheets. [N.J.A.C. 7:27-22.16(o)]	None.
5	Total Throughput $\leq 7,500$ tons/yr (15,000,000 lb/yr) of Phenol for Phenol Storage Tank (E202). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material balance once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. The permittee shall calculate and record the year-to-date material throughput each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS3 POCl₃ Storage Tank (12,500 gallon capacity, Vertical Fixed Roof), controlled by Packed Tower Scrubber (CD201).

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank contents limited to Phosphorus Oxychloride (non-VOC). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Total Throughput <= 9,000 tons/yr (18,000,000 lb/yr) of Phosphorus Oxychloride for the POCl ₃ Storage Tank (E203). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material balance once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation of the year-to-date material throughput each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
3	Flowrate >= 175 gal/min. Water flow rate at inlet to the venturi portion of the POCl ₃ Storage Tank Scrubber (CD201). [N.J.A.C. 7:27-22.16(e)]	Flowrate: Monitored by scrubber flow rate instrument continuously. The monitor shall be ranged such that the allowable value is approximately mid-scale of the fullrange current/voltage output. In the event that the flow meter cannot be read, a back-up reading for the inlet water pressure (circulation pump) shall be monitored and recorded once per day. The water pressure shall be maintained between 30 and 250 psig. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by manual logging of parameter or storing data in a computer data system daily or data acquisition system (DAS)/ electronic data storage daily. [N.J.A.C. 7:27-22.16(o)]	None.
4	Flowrate >= 6,000 lb/hr (>= 100 lb/min). Water flow rate at inlet to the packed tower portion of the POCl ₃ Storage Tank Scrubber (CD201). [N.J.A.C. 7:27-22.16(e)]	Flowrate: Monitored by scrubber flow rate instrument continuously. The monitor shall be ranged such that the allowable value is approximately mid-scale of the fullrange current/voltage output. In the event that the flow meter cannot be read, a back-up reading for the inlet water pressure (circulation pump) shall be monitored and recorded once per day. The water pressure shall be maintained between 30 and 250 psig. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by manual logging of parameter or storing data in a computer data system daily or data acquisition system (DAS)/ electronic data storage daily. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Pressure Drop Across the Scrubber ≥ 2 and Pressure Drop Across the Scrubber ≤ 8 inches w.c. across the packed tower portion of the POC13 Storage Tank Scrubber (CD201). [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. The monitor shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by manual logging of parameter or storing data in a computer data system daily or data acquisition system (DAS)/ electronic data storage daily. [N.J.A.C. 7:27-22.16(o)]	None.
6	Scrubbing Medium Density ≥ 0.7 g/cm ³ and Scrubbing Medium Density ≤ 2.0 g/cm ³ for the POC13 Storage Tank Scrubber (CD201). [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by representative sampling 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.
7	The permittee is authorized to operate the POC13 Phenol Storage Tank (E203) without the POC13 Storage Tank Scrubber (CD201) for up to a seven-day period if the control device is non-operational. However, no material may be transferred into the tank during the seven-day period. The control device must be operational within seven days or the tank is taken out of use. [N.J.A.C. 7:27-22.16(e)]	Other: Monitor down times and coordinating start-up of the POC13 Storage Tank Scrubber (CD201) on a per event basis.[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 of down times and coordinating start-up of the POC13 Storage Tank Scrubber (CD201). [N.J.A.C. 7:27-22.16(o)]	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS8 Alcohol Weigh Tank (1,000 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	Total Throughput <= 6,000 tons/yr (12,000,000 lb/yr) of Iso-butyl Alcohol for the Alcohol Weigh Tank (E208). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material balance once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation of the year-to-date material throughput each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
3	Total Throughput <= 6,100 tons/yr (12,200,000 lb/yr) of Butanol for the Alcohol Weigh Tank (E208). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material balance once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation of the year-to-date material throughput each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Total Throughput <= 5,400 tons/yr (10,800,000 lb/yr) of C12-14-16 Alcohol for the Alcohol Weigh Tank (E208). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material balance once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation of the year-to-date material throughput each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	Total Throughput <= 5,250 tons/yr (10,500,000 lb/yr) of 2-ethylhexanol for the Alcohol Weigh Tank (E208). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material balance once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation of the year-to-date material throughput each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
6	Total Throughput <= 6,150 tons/yr (12,300,000 lb/yr) of Isodecyl Alcohol for the Alcohol Weigh Tank (E208). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by material balance once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation of the year-to-date material throughput each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	VOC (Total) <= 0.987 lb/hr. Maximum emission rate for the Alcohol Weigh Tank (E208). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS10 HCl Absorber and Vacuum System (150 gallon Absorber)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 2.3 lb/hr. Maximum emission rate for HCl Absorber and Vacuum System (E210). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	HCl Emissions <= 0.01 lb/hr. Maximum emission rate of this HAP for HCl Absorber and Vacuum System (E210). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS12 Caustic Mix Tank (3,500 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	Process vessel contents limited to any process chemical liquid or process water with a vapor pressure less than or equal to 0.02 psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by lab analysis, assay report, or Material Safety Data Sheets once for each type of liquid stored, added or changed out.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system daily of the tank contents. Maintain records of the vapor pressure at standard conditions for each type of material stored in the tanks which contain applicable VOCs, and for non-applicable VOCs, list non-applicable VOC vapor pressure <= 0.02 psia. Vapor pressure records can include lab analysis, assay reports or Material Safety Data Sheets. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 0.05 lb/hr. Maximum emission rate for the Caustic Mix Tank (E211). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS13 Reactor II/III (8,000 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.2 lb/hr. Maximum emission rate for Reactor II/III (E212). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	HCl Emissions <= 0.01 lb/hr. Maximum emission rate of this HAP for Reactor II/III (E212). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Phenol <= 0.1 lb/hr. Maximum emission rate of this HAP for Reactor II/III (E212). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS14 HCl Seal Tank (400 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	Process vessel contents limited to any process chemical liquid or process water with a vapor pressure less than or equal to 0.02 psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by lab analysis, assay report, or Material Safety Data Sheets once for each type of liquid stored, added or changed out.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system daily of the tank contents. Maintain records of the vapor pressure at standard conditions for each type of material stored in the tanks which contain applicable VOCs, and for non-applicable VOCs, list non-applicable VOC vapor pressure <= 0.02 psia. Vapor pressure records can include lab analysis, assay reports or Material Safety Data Sheets. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 0.06 lb/hr. Maximum emission rate for the HCl Seal Tank (E213). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS15 Phenate Tank (6,000 gallon Process Vessel), OS16 Phenate Tank (11,500 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.15 lb/hr. Maximum emission rate for the 2 Phenate Tanks (E214 & E215). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS17 Phenate Weigh Tank (2,000 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.05 lb/hr. Maximum emission rate for the Phenate Weigh Tank (E216). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS18 Mixpot #1 (60 gallon Process Vessel), OS19 Mixpot #2 (60 gallon Process Vessel), OS20 Mixpot #3 (60 gallon Process Vessel), OS21 Mixpot #4 (60 gallon Process Vessel), OS22 Mixpot #5 (60 gallon Process Vessel), OS23 Mixpot #6 (60 gallon Process Vessel), OS24 Mixpot #7 (60 gallon Process Vessel), OS25 Mixpot #8 (60 gallon Process Vessel), OS26 Mixpot #9 (60 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.05 lb/hr. Maximum emission rate for Mixpot #1 - 9 (E217 - E225, each). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS27 Decanter #1, OS28 Decanter #2, OS29 Decanter #3, OS30 Decanter #4, OS31 Decanter #5, OS32 Decanter #6, OS33 Decanter #7, OS34 Decanter #8, OS35 Decanter #9

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.05 lb/hr. Maximum emission rate for Decanter #1 - 9 (E226 - E234, each). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS36 Steamer Column (1,000 gallon Column)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 1.5 lb/hr. Maximum emission rate for Steamer Column (E235). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS37 Steamer Overheads Tank (5,000 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 2.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.05 lb/hr. Maximum emission rate for Steamer Overheads Tank (E236). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS39 DIBP Batch Dehydrator (5,000 gallon Reactor), OS41 Steamer Feed Tank (3,000 gallon Process Vessel), OS45 Small Coalescer (700 gallon Oil/Water Separator)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.05 lb/hr. Maximum emission rate for DIBP Batch Dehydrator (E238), Steamer Feed Tank (E240), and Small Coalescer (E244), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS40 Washer Feed Tank (5,000 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.05 lb/hr. Maximum emission rate for Washer Feed Tank (E239). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS43 Caustic Settling Tank (7,500 gallon Process Vessel), OS44 Big Coalescer (3,500 gallon Oil/Water Separator)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 2.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.26 lb/hr. Maximum emission rate for Caustic Settling Tank (E242) and Big Coalescer (E243), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U3 Phosphate Esters, subject to MACT Subpart FFFF

Operating Scenario: OS46 Salt Settling Tank (5,000 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.09 lb/hr. Maximum emission rate for Salt Settling Tank (E245). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Throughput <= 300,000 lb/day of Phthalic Anhydride and/or Dicarboxylate Anhydride shall be fed to the reactor system. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations daily of throughput in pounds for the reactor system, including the date of operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per shift during operation of pounds of Phthalic Anhydride fed to the reactor system. The permittee shall also maintain a daily total of the pounds of Phthalic Anhydride being fed to the reactor system. [N.J.A.C. 7:27-22.16(o)]	None.
2	Total Throughput <= 12,500 lb/hr of Phthalic Anhydride and/or Dicarboxylate Anhydride as a daily average shall be fed to the reactor system. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. The permittee shall calculate the daily average pounds per hour throughput of material based on a 24-hour period. [N.J.A.C. 7:27-22.16(o)]	None.
3	Total Throughput <= 12,500 lb/hr of Phthalic Anhydride and/or Dicarboxylate Anhydride. Combined average raw material throughput for Operating Scenarios OS8 - OS33 and OS53 - OS67. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. The permittee shall calculate the daily average lb/hr throughput of Phthalic Anhydride based on a 24-hour period for Operating Scenarios OS8 - OS33 and OS53 - OS67. [N.J.A.C. 7:27-22.16(o)]	None.
4	Total Production Rate <= 201,750 tons/yr (403,500,000 lb/yr) of combined Benzyl Phthalates and Benzyl Dicarboxylates. [N.J.A.C. 7:27-22.16(a)]	Total Production Rate: Monitored by calculations each month during operation. [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 each month during operation of throughput per raw material for the month. In a calendar year, the permittee shall add the current month's pounds to the previous month's pounds to calculate the year-to-date pounds. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The wastewater stream 03-WW-05 shall be further reviewed and analyzed for VOC/RACT options pursuant to N.J.A.C. 7:27-16.17. Alternative control or pollution prevention options for this wastewater stream shall be submitted. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	This process package does not include the provisions of N.J.A.C. 7:27-16.17. Upon the Department's final determination of the alternative VOC control plan, this permit shall be re-opened by the Department within 180 days of such determination. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	VOC (Total) <= 15.9 tons/yr. Annual emissions limit for Benzyl Phthalates equipment. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 0.26 tons/yr. Annual emission limit for Benzyl Phthalates equipment. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	TSP <= 3 tons/yr. Annual emission limit for Benzyl Phthalates equipment. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	HAPs (Total) <= 13.48 tons/yr. Annual emission limit for Benzyl Phthalates equipment based on Benzyl chloride, Ethyl chloride, HCl, Methylene chloride, Phthalic anhydride, Toluene, and Triethylamine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Benzyl chloride <= 0.26 tons/yr. Annual emission limit of this HAP for Benzyl Phthalate equipment. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Ethyl chloride <= 5.27 tons/yr. Annual emission limit of this HAP for Benzyl Phthalates equipment. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	HCl Emissions <= 0.02 tons/yr. Annual emission limit of this HAP for Benzyl Phthalates equipment. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Methylene chloride (Dichloromethane) <= 0.63 tons/yr. Annual emission limit of this HAP for Benzyl Phthalates equipment. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	Phthalic anhydride <= 6 tons/yr. Annual emission limit of this HAP for Benzyl Phthalates equipment. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
16	Toluene <= 0.94 tons/yr. Annual emission limit of this HAP for Benzyl Phthalates equipment. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Triethylamine <= 0.36 tons/yr. Annual emission limit of this HAP for Benzyl Phthalates equipment. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	See GR1 for MACT Subpart A requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	The facility is subject to 40 CFR 63 Subpart FFFF because it operates miscellaneous organic chemical manufacturing process units (MCPU) in the Benzyl Phthalate Process that are located at a major source of HAPs as defined in section 112(a) of the Clean Air Act (CAA). The notice of compliance status for 40 CFR 63 Subpart FFFF was submitted (postmarked) October 2, 2008. [40 CFR 63.2435]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	For compliance with 40 CFR 63 Subpart FFFF, for Group 1 storage tanks (capacity greater than or equal to 10,000 gallons and maximum true vapor pressure of HAP greater than 1.0 psia) with stored material true vapor pressure of total HAP greater than or equal to 11.11 psia (greater than or equal to 76.6 kpa): reduce total HAP emissions by greater than or equal to 95% by weight or to less than or equal to 20 ppmv of total organic compounds (TOC) or organic HAP by venting emissions through a closed vent system to any combination of control devices. Benzyl Phthalates has no storage tanks that meet this Group 1 criteria. [40 CFR 63.2470]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2470].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2470]
21	For compliance with 40 CFR 63 Subpart FFFF, for Group 1 storage tanks (capacity greater than or equal to 10,000 gallons and maximum true vapor pressure of HAP greater than 1.0 psia) where the stored material true vapor pressure of total HAP is less than 11.11 psi (less than 76.6 kpa): either comply with the floating roof requirements in 40 CFR 63 Subpart WW - National Emission Standards for Storage Vessels (Tanks), except as specified in 40 CFR 63.2470; or reduce total HAP emissions by greater than or equal to 95% by weight or to less than or equal to 20 ppmv of total organic compounds (TOC) or organic HAP by venting emissions through a closed vent system to any combination of control devices. Benzyl Phthalates has one storage tank, TEA Storage Tank, 03-STV-02 (OS2) that meets this Group 1 storage tank criteria. [40 CFR 63.2470]	Monitored by other method (provide description) at the approved frequency. Monitor per U4 OS2 reference 13. [40 CFR 63.2470]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Keep records per U4 OS2 reference #13 for five (5) years. [40 CFR 63.2470]	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2470]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	For compliance with 40 CFR 63 Subpart FFFF, for Group 1 continuous process vents, reduce emissions of total HAP by greater than or equal to 98% by weight or to an outlet process concentration of less than or equal to 20 ppmv as organic HAP or TOC by venting emissions through a closed-vent system to any combination of control devices. There are no Group 1 continuous process vents in Benzyl Phthalates. [40 CFR 63.2455]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2455].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2455]
23	For compliance with 40 CFR 63 Subpart FFFF, for Group 2 continuous process vent: when devices such as absorbers or condensers are used to maintain a total resource effectiveness (TRE) level to greater than 1.9 but less than or equal to 5.0, comply with the requirements in Section 993, 40 CFR 63 Subpart SS - National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or Process. There are no affected continuous process vents in Benzyl Phthalates. [40 CFR 63.2455]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2455].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2455]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	For compliance with 40 CFR 63 Subpart FFFF, for collective uncontrolled organic HAP emissions for all batch process vents greater than or equal to 10,000 lbs/yr: either reduce collective uncontrolled organic HAP emissions from the sum of all batch process vents within the process by greater than or equal to 98% by weight by venting emissions through one or more closed-vent systems to any combination of control devices; or reduce collective uncontrolled organic HAP emissions from the sum of all batch process vents within the process by greater than or equal to 95% by weight by venting emissions through one or more closed-vent systems to any combination of recovery devices or a biofilter, or comply with the requirements of 40 CFR 63 Subpart WW for any process tank. There are no batch vents in Benzyl Phthalates. [40 CFR 63.2460]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2460].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2460]
25	For compliance with 40 CFR 63 Subpart FFFF, for Group 1 transfer rack that loads more than 0.17 million gallons/year (0.65 million liters/year) of liquids containing organic HAP with a weighted average partial pressure greater than or equal to 1.5 psia: reduce emissions of total organic HAP by greater than or equal to 98% by weight or to an outlet concentration less than or equal to 20 ppmv as organic HAP or TOC by venting through a closed-vent system to any combination of control devices. There are no Group 1 MON Transfer Racks in Benzyl Phthalates. [40 CFR 63.2475]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2475].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2475]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	For compliance with 40 CFR 63 Subpart FFFF, for Group 1 transfer racks, as an alternative, use a vapor balancing system designed and operated to collect organic HAP vapors displaced from tank trucks and railcars during loading and route the collected HAP vapors to the storage tank from which the liquid being loaded originated or to another storage tank collected by a common carrier. There are no Group 1 MON Transfer Racks in Benzyl Phthalates. [40 CFR 63.2475]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2475].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2475]
27	For compliance with 40 CFR 63 Subpart FFFF, for all equipment that is in organic HAP service: comply with the requirements of 40 CFR 63 Subpart UU - National Emission Standards for Equipment Leaks Control Level, except as specified in 40 CFR 63.2480(b) and (d); or comply with the requirements of 40 CFR 63 Subpart H - National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks, except as specified in 40 CFR 63.2480(b) and (d); or comply with the requirements of 40 CFR 65 Subpart F - Equipment Leaks, except as specified in 40 CFR 63.2480(c) and (d). The facility has elected to comply with the requirements in 40 CFR 63 Subpart H which are detailed in Subject Item Group 3. The Notice of Compliance Status with respect to utilizing 40 CFR 63 Subpart H for compliance with 40 CFR 63 Subpart FFFF was submitted (postmarked) August 7, 2008. [40 CFR 63.2480]	Monitored by periodic leak detection monitoring at the approved frequency. Monitor Leak Detection and Repair (LDAR) components in compliance with 40 CFR 63 Subpart UU, or 40 CFR 63 Subpart H, or 40 CFR 65 Subpart F. [40 CFR 63.2480]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Records frequency and retention per 40 CFR 63 Subpart UU, or 40 CFR 63 Subpart H, or 40 CFR 65 Subpart F. [40 CFR 63.2480]	Submit a report: Other. Submit semi-annual report by February 28 and August 31 and keep for five (5) years. [40 CFR 63.2480]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	For compliance with 40 CFR 63 Subpart FFFF, submit semi-annual compliance reports for the periods January 1 through June 30 and July 1 through December 31 no later than August 31 and February 28, respectively. The compliance report shall contain the information specified in 40 CFR 63.2520 paragraphs (e)(1) through (e)(10). [40 CFR 63.2525]	None.	Other: Maintain each applicable record as specified in 40 CFR 2525 paragraphs (a) through (k) for five (5) years[40 CFR 63.2525].	Submit a report: As per the approved schedule. Submit MON semi-annual reports to the New Jersey Department of Environmental Protection, Air Compliance and Enforcement by August 31 and February 28. [40 CFR 63.2525]
29	For compliance with 40 CFR 63 Subpart FFFF, heat exchangers shall comply with the requirements of 40 CFR 63.104, except as specified in 63.2490. Monitor MON affected heat exchangers for leakage. Monitoring to be conducted in accordance with monitoring protocols. All Benzyl Phthalate MCPU heat exchangers are designated affected. [40 CFR 63.2490]	Monitored by periodic leak detection monitoring at the approved frequency. Monitor per IS303 reference 2 (03-PCT-01 Cooling Tower) monitoring requirement. [40 CFR 63.2490]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Keep records per IS303 reference 2 (03-PCT-01 Cooling Tower) recordkeeping requirement. [40 CFR 63.2490]	Submit a report: Submit a report per IS303 reference 2 (03-PCT-01 Cooling Tower) submittal/action requirement. [40 CFR 63.2490]
30	For compliance with 40 CFR 63 Subpart FFFF, for process wastewater streams and liquid streams in open systems, comply with the requirements in Section 63.132 through 63.149, 40 CFR 63 Subpart G - National Emission Standards for the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations and Wastewater, except as specified in 40 CFR 63.2485. There are no Group 1 wastewater streams in Benzyl Phthalates. [40 CFR 63.2485]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2485].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2485]
31	For compliance with 40 CFR 63 Subpart FFFF, for maintenance wastewater streams, comply with the requirements in Section 63.105, 40 CFR 63 Subpart F - National Emission Standards for Organic Hazardous Air Pollutants for the Synthetic Organic Chemical Manufacturing Industry. There are no Group 1 maintenance wastewater streams in Benzyl Phthalates. [40 CFR 63.2485]	None.	Other: Maintain up-to-date applicability records.[40 CFR 63.2485].	Submit notification: send information per 63.2520(e) prior to implementation of process change. [40 CFR 63.2485]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
32	The emission limits in Table 4 of 40 CFR 63 Subpart FFFF for control devices used to control emissions from storage tanks do not apply during periods of planned routine maintenance. Periods of planned routine maintenance of each control device, during which the control device does not meet the emission limit specified in Table 4, must not exceed 240 hours per year (hr/yr). You may submit an application to the Administrator requesting an extension of this time limit to a total of 360 hr/yr. The application must explain why the extension is needed, it must indicate that no material will be added to the storage tank between the time the 240-hr limit is exceeded and the control device is again operational, and it must be submitted at least 60 days before the 240-hr limit will be exceeded. [40 CFR 63.2470(d)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The facility shall keep records of the hours of planned routine maintenance of each control device, during which the control device does not meet the emission limit specified in Table 4. [N.J.A.C. 7:27-22.16(o)] &. [40 CFR 63.2470(d)]	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS1 Butanol Storage Tank (1,400,000 gallon capacity, Vertical Fixed Roof), controlled by Condenser (CD301)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless the external surface of the tank is painted and maintained white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 delivery of the type of VOC stored in each tank. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] &. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	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. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
4	Tank contents limited to Butanol or other alcohols that are not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than or equal to 0.02 psia at standard conditions. From BOP170003. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by material safety data sheet for each type of material stored in the tank. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of tank contents. [N.J.A.C. 7:27-22.16(o)].	None.
5	Total Throughput <= 16,650 tons/yr (33,300,000 lb/yr) of Butanol and other non-applicable VOC alcohols. From BOP170003. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by material feed/flow monitoring each month during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall calculate the year-to-date pounds of Butanol and non-applicable VOC alcohols used monthly. [N.J.A.C. 7:27-22.16(o)]	None.
6	Temperature < -20 degrees C (outlet) for the Condenser (CD301). [N.J.A.C. 7:27-22.16(e)]	Temperature: Monitored by temperature instrument continuously. The meter shall be ranged such that the allowable value is approximately mid-scale of the full range. [N.J.A.C. 7:27-22.16(o)]	Temperature: 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.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The permittee is authorized to operate the Butanol Storage Tank (E301) without the associated control device (CD301) for up to a 7 day period if the control device is non-operational. However, no butanol may be transferred into the tank during the 7 day period. The control device must be operational within 7 days or the tank taken out of use. From BOP170003. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	The control device (CD301) is not required to be operational during the storage of other alcohols that have a vapor pressure less than or equal to 0.02 psia at standard conditions. From BOP170003. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS2 Triethylamine (TEA) Storage Tank (20,000 gallon capacity, Vertical Fixed Roof), controlled by Adsorber (CD302)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless the external surface of the tank is painted and maintained white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	No person shall cause, suffer, allow or permit the storage of any applicable VOC in any stationary storage tank having a maximum capacity of 10,000 gallons or greater unless such stationary storage tank is equipped with a conservation vent as determined in accordance with the procedures for using Table 2A of N.J.A.C. 7:27-16.2. [N.J.A.C. 7:27-16.2(b)2]	None.	None.	None.
3	Any person responsible for the emission of any applicable VOC from any storage tank pursuant to N.J.A.C. 7:27-16 shall maintain, for each tank, records specifying VOCs stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(k)]	Other: Monitor tank contents from invoices/bills of lading per delivery. Monitor vapor pressure by means of lab analysis or Material Safety Data Sheet kept on site.[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 of the type of VOC stored in each tank. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] & [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	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.	None.	None.
5	For any control apparatus using carbon or other adsorptive material, record the date of carbon bed replacement. [N.J.A.C. 7:27-16.4(o)2ii]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-16.4(o)2ii]	None.
6	Tank contents limited to Triethylamine. From BOP080002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Total Throughput <= 600 tons/yr (1,200,000 lb/yr) of Triethylamine. [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by calculations each month during operation. From BOP080002. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall calculate the year-to-date pounds of Triethylamine delivered monthly using bills of lading. From BOP080002. [N.J.A.C. 7:27-22.16(o)]	None.
8	The facility shall operate a non-regenerative carbon adsorption system (CD302) piped into the vent line. The control device shall be a four unit series/parallel system, with the downstream units acting as polishing units. From BOP080002. [40 CFR 63.2445(b)] & [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The permittee is authorized to operate the TEA Storage Tank (E302) without the associated control device (CD302) for up to a 7 day period if the control device is non-operational. However, no material may be transferred into the tank during the 7 day period. The control device must be operational within 7 days or the tank taken out of use. From BOP080002. [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 facility shall record the start and end times of when the carbon adsorber (CD302) is not controlling TEA Storage Tank (E302) emissions, for each event. [N.J.A.C. 7:27-22.16(o)]	None.
10	Time Between Replacement of Carbon <= 55 days in the upstream carbon adsorption units, based on calculations provided by Ferro in their 05/07/08 email to the Department. From BOP080002. [N.J.A.C. 7:27-22.16(a)]	None.	Time Between Replacement of Carbon: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall record the time and date of each replacement of carbon adsorption unit(s). [N.J.A.C. 7:27-22.16(o)]	None.
11	Time Between Replacement of Carbon <= 110 days in the downstream carbon adsorption units (polishing units). From BOP080002. [N.J.A.C. 7:27-22.16(a)]	None.	Time Between Replacement of Carbon: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall record the time and date of each replacement of carbon adsorption unit(s). [N.J.A.C. 7:27-22.16(o)]	None.
12	VOC emissions from the carbon adsorption system (CD302) shall be sampled and recorded during any delivery to storage tank E302 during the 5 days prior to the 55 day replacement date of the upstream canisters. The sampling point shall be at the outlet of the initial canister, but before the inlet to the polishing canister. The outlet concentration may not exceed the breakthrough concentration for the carbon adsorption system, provided by the control device vendor. From BOP080002. [N.J.A.C. 7:27-22.16(a)]	Monitored by periodic emission monitoring per delivery during the 5 days prior to the 55 day upstream canister replacement date. [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 facility shall maintain records of sample time, date, and monitoring results (ppmv). [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
13	Saturated or partially used adsorption material shall be disposed of in a manner that minimizes releases of air contaminants to the atmosphere. This shall be done in accordance with all applicable State and Federal solid waste management regulations. From BOP080002. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The facility shall record how the carbon in each drum was disposed of. [N.J.A.C. 7:27-22.16(o)]	None.
14	Triethylamine >= 95 % removal efficiency. The facility shall reduce Triethylamine emissions from the TEA Storage Tank (E302) by >= 95 percent by weight by venting emissions through a closed vent system to the carbon adsorber (CD302), as required in Table 4 of 40 CFR 63 Subpart FFFF. From BOP080002. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall prepare and submit with the Notification of Compliance Status, as specified in 40 CFR 63.999(b)(2), a design evaluation that includes the information specified in 40 CFR 63.985(b)(1)(i). The design evaluation shall include documentation demonstrating that the control device being used achieves the required control efficiency during the reasonably expected maximum storage vessel filling rate. [40 CFR 63.985(b)(1)(i)] & [N.J.A.C. 7:27-22.16(o)].	None.	Submit documentation of compliance: Once initially. The design evaluation documentation shall be submitted with the Notification of Compliance Status as specified in 40 CFR 63.999(b)(2). [40 CFR 63.985(b)(1)(i)]

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Facility Specific Requirements**

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS4 Alcohol/Butanol Storage Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless the external surface of the tank is painted and maintained white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 delivery of the type of VOC stored in each tank. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] &. [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
3	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. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
4	Tank contents limited to Butanol or other alcohols that are not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than or equal to 0.02 psia at standard conditions. From BOP170003. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by material safety data sheet for each type of material stored in the tank. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of tank contents. [N.J.A.C. 7:27-22.16(o)].	None.
5	Total Throughput <= 16,650 tons/yr (33,300,000 lb/yr) of Butanol and other non-applicable VOC alcohols. From BOP170003. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by material feed/flow monitoring each month during operation. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall calculate the year-to-date pounds of Butanol and non-applicable VOC alcohols used monthly. [N.J.A.C. 7:27-22.16(o)]	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS6 Phthalic Anhydride Storage Tank (88,000 gallon capacity, Vertical Fixed Roof) (uncontrolled)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall maintain tank under a controlled elevated temperature. [N.J.A.C. 7:27-16.2(f)1]	None.	None.	None.
2	Any person responsible for the emission of any applicable VOC from any storage tank pursuant to N.J.A.C. 7:27-16 shall maintain, for each tank, records specifying VOCs stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(k)]	Other: Monitor tank contents from invoices/bills of lading per delivery. Monitor vapor pressure by means of lab analysis or Material Safety Data Sheet kept on site.[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 of the type of VOC stored in each tank. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] & [N.J.A.C. 7:27-22.16(o)]	None.
3	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.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Tank contents limited to any process chemical liquid or process water that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than or equal to 0.02 psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by lab analysis, assay report, or Material Safety Data Sheet once for each type of liquid stored, added or changed out.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system daily of the tank contents. Maintain records of the vapor pressure at standard conditions for each type of material stored in the tanks which contain applicable VOCs, and for non-applicable VOCs, list non-applicable VOC vapor pressure \leq 0.02 psia. Vapor pressure records can include lab analysis, assay reports, or Material Safety Data Sheets. [N.J.A.C. 7:27-22.16(o)]	None.
5	Total Throughput \leq 44,750 tons/yr (89,500,000 lb/yr) of phthalic anhydride. [N.J.A.C. 7:27-22.16(e)]	Other: Total Throughput: Monitored by tank gauging continuously.[N.J.A.C. 7:27-22.16(o)].	Other: Total Throughput: Recordkeeping by manual pumping records or electronic data storage continuously. The permittee shall calculate the year-to-date pounds of phthalic anhydride used monthly.[N.J.A.C. 7:27-22.16(o)].	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS7 Phthalic Anhydride Storage Tank (88,000 gallon capacity, Vertical Fixed Roof), controlled by Condenser (CD303)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall maintain tank under a controlled elevated temperature. [N.J.A.C. 7:27-16.2(f)1]	None.	None.	None.
2	Any person responsible for the emission of any applicable VOC from any storage tank pursuant to N.J.A.C. 7:27-16 shall maintain, for each tank, records specifying VOCs stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(k)]	Other: Monitor tank contents from invoices/bills of lading per delivery. Monitor vapor pressure by means of lab analysis or Material Safety Data Sheet kept on site.[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 of the type of VOC stored in each tank. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] & [N.J.A.C. 7:27-22.16(o)]	None.
3	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.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Tank contents limited to any process chemical liquid or process water that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than or equal to 0.02 psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by lab analysis, assay report, or Material Safety Data Sheet once for each type of liquid stored, added or changed out.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system daily of the tank contents. Maintain records of the vapor pressure at standard conditions for each type of material stored in the tanks which contain applicable VOCs, and for non-applicable VOCs, list non-applicable VOC vapor pressure \leq 0.02 psia. Vapor pressure records can include lab analysis, assay reports, or Material Safety Data Sheets. [N.J.A.C. 7:27-22.16(o)]	None.
5	Total Throughput \leq 44,750 tons/yr (89,500,000 lb/yr) of phthalic anhydride. [N.J.A.C. 7:27-22.16(e)]	Other: Total Throughput: Monitored by tank gauging continuously.[N.J.A.C. 7:27-22.16(o)].	Other: Total Throughput: Recordkeeping by manual pumping records or electronic data storage continuously. The permittee shall calculate the year-to-date pounds of phthalic anhydride used monthly.[N.J.A.C. 7:27-22.16(o)].	None.
6	Temperature $<$ 130 degrees C. Outlet temperature of 03-CD-03 (CD303) when the conservation vent is open. [N.J.A.C. 7:27-22.16(e)]	Temperature: Monitored by temperature instrument continuously. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range. [N.J.A.C. 7:27-22.16(o)]	Temperature: 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.
7	The inlet temperature of the cooling media of 03-CD-03 (CD303) shall be that of ambient air. [N.J.A.C. 7:27-22.16(e)]	Monitored by temperature instrument continuously. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range. [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.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS8 Salt Dissolver (1.500 gallon Process Vessel), controlled by Condenser (CD304)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	Temperature <= 50 degrees C. Air contaminant outlet temperature of 03-CD-04 (CD304). [N.J.A.C. 7:27-22.16(e)]	Temperature: Monitored by temperature instrument continuously. The meter shall be ranged such that the allowable value is approx. mid-scale of the full range. [N.J.A.C. 7:27-22.16(o)]	Temperature: 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.
3	VOC (Total) <= 0.25 lb/hr. Maximum emission rate for Salt Dissolver (E307), controlled by Condenser (CD304). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Benzyl chloride <= 0.002 lb/hr. Maximum emission rate of this HAP for Salt Dissolver (E307), controlled by Condenser (CD304). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Ethyl chloride <= 0.05 lb/hr. Maximum emission rate of this HAP for Salt Dissolver (E307), controlled by Condenser (CD304). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Triethylamine <= 0.05 lb/hr. Maximum emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS9 2nd Crude Decanter Mixpot (60 gallon Process Vessel), OS10 3rd Crude Decanter Mixpot (60 gallon Process Vessel), OS11 4th Crude Decanter Mixpot (60 gallon Process Vessel), OS14 3rd Crude Decanter (800 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.11 lb/hr. Maximum emission rate for Crude Decanter Mixpots and 3rd Crude Decanter (E308-310, 313), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.001 lb/hr. Maximum emission rate of this HAP for Crude Decanter Mixpots and 3rd Crude Decanter (E308-310, 313), each. From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Ethyl chloride <= 0.04 lb/hr. Maximum emission rate of this HAP for Crude Decanter Mixpots and 3rd Crude Decanter (E308-310, 313), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Methylene chloride (Dichloromethane) <= 0.01 lb/hr. Maximum emission rate of this HAP for Crude Decanter Mixpots and 3rd Crude Decanter (E308-310, 313), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Toluene <= 0.01 lb/hr. Maximum emission rate of this HAP for Crude Decanter Mixpots and 3rd Crude Decanter (E308-310, 313), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS12 1st Crude Decanter (800 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.1 lb/hr. Maximum emission rate for Crude Decanters (E311 & 312). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.001 lb/hr. Maximum emission rate of this HAP for Crude Decanters (E311 & 312). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Ethyl chloride <= 0.03 lb/hr. Maximum emission rate of this HAP for Crude Decanters (E311 & 312). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Methylene chloride (Dichloromethane) <= 0.01 lb/hr. Maximum emission rate of this HAP for Crude Decanters (E311 & 312). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Toluene <= 0.01 lb/hr. Maximum emission rate of this HAP for Crude Decanters (E311 & 312). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS13 2nd Crude Decanter (800 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.1 lb/hr. Maximum emission rate for Crude Decanters (E311 & 312). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.001 lb/hr. Maximum emission rate of this HAP for Crude Decanters (E311 & 312). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Ethyl chloride <= 0.03 lb/hr. Maximum emission rate of this HAP for Crude Decanters (E311 & 312). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Methylene chloride (Dichloromethane) <= 0.01 lb/hr. Maximum emission rate of this HAP for Crude Decanters (E311 & 312). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Toluene <= 0.01 lb/hr. Maximum emission rate of this HAP for Crude Decanters (E311 & 312). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS15 4th Crude Decanter (800 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.12 lb/hr. Maximum emission rate for Crude Decanter (E314). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.001 lb/hr. Maximum emission rate of this HAP for Crude Decanter (E314). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Ethyl chloride <= 0.04 lb/hr. Maximum emission rate of this HAP for Crude Decanter (E314). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Methylene chloride (Dichloromethane) <= 0.01 lb/hr. Maximum emission rate of this HAP for Crude Decanter (E314). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP220001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Toluene <= 0.01 lb/hr. Maximum emission rate of this HAP for Crude Decanter (E314). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP220001

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS16 S-160 Steamer (1,010 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 1.95 lb/hr. Maximum emission rate for S-160 Steamer (E315). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.015 lb/hr. Maximum emission rate of this HAP for S-160 Steamer (E315). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Ethyl chloride <= 1.2 lb/hr. Maximum emission rate of this HAP for S-160 Steamer (E315). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Toluene <= 0.1 lb/hr. Maximum emission rate of this HAP for S-160 Steamer (E315). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Triethylamine <= 0.05 lb/hr. Maximum emission rate of this HAP for S-160 Steamer (E315). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP220001

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS17 Steamer Overheads Tank (15,000 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.1 lb/hr. Maximum emission rate for Steamer Overheads Tank (E316). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.0082 lb/hr. Maximum emission rate of this HAP for Steamer Overheads Tank (E316). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Ethyl chloride <= 0.03 lb/hr. Maximum emission rate of this HAP for Steamer Overheads Tank (E316). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Methylene chloride (Dichloromethane) <= 0.01 lb/hr. Maximum emission rate of this HAP for Steamer Overheads Tank (E316). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Toluene <= 0.01 lb/hr. Maximum emission rate of this HAP for Steamer Overheads Tank (E316). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Triethylamine <= 0.01 lb/hr. Maximum emission rate of this HAP for Steamer Overheads Tank (E316). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP220001

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS18 Decolorizer (1,000 gallon Process Vessel), OS22 Refining Decanter (1,000 gallon Process Vessel), OS23 Refining Decanter (3,200 gallon Process Vessel), OS25 Dryer Surge Tank (500 gallon Process Vessel), OS26 Pre Coat Tank (70 gallon Process Vessel), OS53 Blend Tank 131 (5,500 gallon Process Vessel), OS54 Blend Tank 132 (5,500 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.05 lb/hr. Maximum emission rate for Decolorizer (E317), Refining Decanter (E321), Refining Decanter (E322), Dryer Surge Tank (E324), Pre Coat Tank (E325), and Blend Tank 131 & 132 (E352 & E353), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP220001

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS19 Crude Hold Tank (1,075 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.12 lb/hr. Maximum emission rate for Crude Hold Tank (E318). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.007 lb/hr. Maximum emission rate of this HAP for Crude Hold Tank (E318). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Ethyl chloride <= 0.04 lb/hr. Maximum emission rate of this HAP for Crude Hold Tank (E318). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Methylene chloride (Dichloromethane) <= 0.01 lb/hr. Maximum emission rate of this HAP for Crude Hold Tank (E318). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Toluene <= 0.01 lb/hr. Maximum emission rate of this HAP for Crude Hold Tank (E318). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP220001

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS20 Hot Well (135 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.082 lb/hr. Maximum emission rate from Hot Well (E319). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.001 lb/hr. Maximum emission rate of this HAP from Hot Well (E319). From BOP170001. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Ethyl chloride <= 0.03 lb/hr. Maximum emission rate of this HAP from Hot Well (E319). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Methylene chloride (Dichloromethane) <= 0.006 lb/hr. Maximum emission rate of this HAP from Hot Well (E319). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP220001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Toluene <= 0.01 lb/hr. Maximum emission rate of this HAP from Hot Well (E319). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP220001

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS24 S-160 Dryer (1,065 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.195 lb/hr. Maximum emission rate for S-160 Dryer (E323). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Ethyl chloride <= 0.12 lb/hr. Maximum emission rate of this HAP for S-160 Dryer (E323). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Toluene <= 0.01 lb/hr. Maximum emission rate of this HAP for S-160 Dryer (E323). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Triethylamine <= 0.005 lb/hr. Maximum emission rate of this HAP for S-160 Dryer (E323). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP220001

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS27 Settling Basin (5,250 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.08 lb/hr. Maximum emission rate for Settling Basin (E326). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.003 lb/hr. Maximum emission rate of this HAP for Settling Basin (E326). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Ethyl chloride <= 0.01 lb/hr. Maximum emission rate of this HAP for Settling Basin (E326). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Toluene <= 0.01 lb/hr. Maximum emission rate of this HAP for Settling Basin (E326). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Triethylamine <= 0.01 lb/hr. Maximum emission rate of this HAP for Settling Basin (E326). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP220001

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS28 "A" Catch Tank (13,000 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.13 lb/hr. Maximum emission rate for "A" Catch Tank (E327). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.003 lb/hr. Maximum emission rate of this HAP for "A" Catch Tank (E327). From BOP170001. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Ethyl chloride <= 0.06 lb/hr. Maximum emission rate of this HAP for "A" Catch Tank (E327). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Methylene chloride (Dichloromethane) <= 0.01 lb/hr. Maximum emission rate of this HAP for "A" Catch Tank (E327). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Toluene <= 0.01 lb/hr. Maximum emission rate of this HAP for "A" Catch Tank (E327). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP220001

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS29 "B" Catch Tank (13,000 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.12 lb/hr. Maximum emission rate "B" Catch Tank (E328). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.003 lb/hr. Maximum emission rate of this HAP for "B" Catch Tank (E328). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Ethyl chloride <= 0.06 lb/hr. Maximum emission rate of this HAP for "B" Catch Tank (E328). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Methylene chloride (Dichloromethane) <= 0.01 lb/hr. Maximum emission rate of this HAP for "B" Catch Tank (E328). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Toluene <= 0.01 lb/hr. Maximum emission rate of this HAP for "B" Catch Tank (E328). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS30 Square Sump (1,500 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.075 lb/hr. Maximum emission rate for Square Sump (E329). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.001 lb/hr. Maximum emission rate of this HAP for Square Sump (E329). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Ethyl chloride <= 0.006 lb/hr. Maximum emission rate of this HAP for Square Sump (E329). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Toluene <= 0.006 lb/hr. Maximum emission rate of this HAP for Square Sump (E329). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Triethylamine <= 0.006 lb/hr. Maximum emission rate of this HAP for Square Sump (E329). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS31 Acid Wash Storage Tank (10,000 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	VOC (Total) <= 0.19 lb/hr. Maximum emission rate for Acid Wash Storage Tank (E330). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzyl chloride <= 0.001 lb/hr. Maximum emission rate of this HAP for Acid Wash Storage Tank (E330). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Ethyl chloride <= 0.07 lb/hr. Maximum emission rate of this HAP for Acid Wash Storage Tank (E330). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	HCl Emissions <= 0.003 lb/hr. Maximum emission rate of this HAP for Acid Wash Storage Tank (E330). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

U4 Benzyl Phthalates, subject to MACT Subpart FFFF

OS31

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Methylene chloride (Dichloromethane) <= 0.01 lb/hr. Maximum emission rate of this HAP for Acid Wash Storage Tank (E330). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Toluene <= 0.01 lb/hr. Maximum emission rate of this HAP for Acid Wash Storage Tank (E330). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS32 T111 Shift Tank (10,000 gallon Process Vessel), OS33 T112 Shift Tank (10,000 gallon Process Vessel)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. 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 for each piece of equipment. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation. [N.J.A.C. 7:27-16.16(g)].	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information: The chemical name and vapor pressure of VOC emitted from each source operation, the percent concentration by volume of VOC in the source gas, the volumetric gas flow rate, the source gas range classification, and the maximum allowable emission rate. Also, the permittee shall record the maximum actual emission rate and maintain the calculations and any test data used to determine the actual emission rate for each process; and, if the source operation is used for more than one process, record the dates on which the source operation is used for each process. [N.J.A.C. 7:27-16.16(g)1]	None.
2	Tank contents limited to any process chemical liquid or process water with a vapor pressure less than or equal to 0.02 psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by lab analysis, assay report, or Material Safety Data Sheet once for each type of liquid stored, added or changed out. [N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system daily of the tank contents in each tank on manual pumping records. Maintain records of the vapor pressure at standard conditions for each type of material stored in the tanks which contain applicable VOCs, and for non-applicable VOCs, list non-applicable VOC vapor pressure <= 0.02 psia. Vapor pressure records can include lab analysis, assay reports, or Material Safety Data Sheets. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Total Throughput <= 91,250 tons/yr (182,500,000 lb/yr) of Santicizer 160. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by tank gauging continuously.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manual pumping records or electronic data storage continuously. The permittee shall calculate the year-to-date pounds of Santicizer 160 used monthly.[N.J.A.C. 7:27-22.16(o)].	None.
4	VOC (Total) <= 0.05 lb/hr. Maximum emission rate for T111 and T112 Shift Tanks (E331 & E332), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS57 SOH Tank Truck 3, OS58 SOH Tank Truck 4

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless an equivalent method of emission control approved by the Department is used. (Equivalent method of emission control = insulation). [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 delivery of the type of VOC stored in each tank. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] &. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	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. (Equivalent method to submerged fill = bottom fill)) [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
4	Tank contents limited to P-1400 and S-160 Steamer Overheads material. From BOP170003. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Total Throughput <= 520,000 gal/yr (combined for OS55 - OS58). From BOP170003. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation. The permittee shall monitor the throughput by calculating the volume of material loaded into the trailer. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: 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.
6	Benzyl chloride <= 0.0005 lb/hr. Maximum emission rate (each). From BOP170003. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS59 SOH Storage Tank (15,000 gallon capacity, Vertical Fixed Roof)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless an equivalent method of emission control approved by the Department is used (Equivalent method = 304 Stainless Steel). [N.J.A.C. 7:27-16.2(b)1ii]	None.	None.	None.
2	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 delivery of the type of VOC stored. [N.J.A.C. 7:27-22.16(o)]	None.
3	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. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
4	Tank contents limited to Steamers Overhead material or other material with a vapor pressure less than or equal to 0.02 psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by safety data sheet for each type of material stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of tank contents.[N.J.A.C. 7:27-22.16(o)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Total Throughput <= 350,000 gal/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by tank gauging and/or metering each month during operation.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation The permittee shall calculate the year-to-date gallons of material. [N.J.A.C. 7:27-22.16(o)]	None.
6	Benzyl chloride <= 0.002 lb/hr. Maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS60 SOH Storage Tank (8,000 gallon capacity, Vertical Fixed Roof)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless an equivalent method of emission control approved by the Department is used (Equivalent method = 304 Stainless Steel). [N.J.A.C. 7:27-16.2(b)1ii]	None.	None.	None.
2	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 delivery of the type of VOC stored. [N.J.A.C. 7:27-22.16(o)]	None.
3	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. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
4	Tank contents limited to Steamers Overhead material. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by safety data sheet for material stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of tank contents.[N.J.A.C. 7:27-22.16(o)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Total Throughput <= 520,000 gal/yr. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Throughput calculated by tank gauging and/or metering. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: 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.
6	Benzyl chloride <= 0.00102 lb/hr. Maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS61 SOH Storage Tank (15,000 gallon capacity, Vertical Fixed Roof)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless an equivalent method of emission control approved by the Department is used (Equivalent method = 304 Stainless Steel). [N.J.A.C. 7:27-16.2(b)1ii]	None.	None.	None.
2	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 delivery. [N.J.A.C. 7:27-22]	None.
3	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. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
4	Tank contents limited to Steamer Overhead material. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by safety data sheet for material stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of tank contents.[N.J.A.C. 7:27-22.16(o)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Total Throughput <= 250,000 gal/yr. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Throughput calculated by tank gauging and/or metering. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: 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.
6	Benzyl chloride <= 0.0006 lb/hr. Maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS62 TEA Tank Truck, OS63 TEA Tank Truck, OS64 TEA Tank Truck, OS65 TEA Tank Truck

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless an equivalent method of emission control approved by the Department is used. (Equivalent method of emission control = insulation). [N.J.A.C. 7:27-16.2(b)1ii]	None.	None.	None.
2	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 delivery. [N.J.A.C. 7:27-22.16(o)]	None.
3	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. (Equivalent method to submerged fill = bottom fill)) [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
4	Tank contents limited to Triethylamine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Total Throughput <= 156,000 gal/yr combined for OS62-OS65. [N.J.A.C. 7:27-16.2(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall monitor the throughput by calculating the volume of material loaded into the trailer. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: 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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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Benzyl Phthalates, subject to MACT Subpart FFFF

Operating Scenario: OS66 SOH Storage Tank (15,000 gallon capacity, Vertical Fixed Roof)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow, or permit the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless an equivalent method of emission control approved by the Department is used (Equivalent method =304 Stainless Steel). [N.J.A.C. 7:27-16.2(b)1ii]	None.	None.	None.
2	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 delivery. [N.J.A.C. 7:27-22]	None.
3	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. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
4	Tank contents limited to Steamer Overhead material. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by Safety Data Sheets for material stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of tank contents.[N.J.A.C. 7:27-22.16(o)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Total Throughput <= 350,000 gal/yr. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Throughput calculated by tank gauging and/or metering. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: 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.
6	Benzyl chloride <= 0.001417 lb/hr. Maximum emission rate of this HAP for SOH Storage Tank (E370). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U5 Utilities, subject to MACT Subpart ZZZZ

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [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. [N.J.A.C. 7:27-22.16(o)]	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [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. [N.J.A.C. 7:27-22.16(o)]	None.
4	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
5	Generator fuel limited to # 2 fuel oil. [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
6	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p>	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information:</p> <p>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ol style="list-style-type: none"> The reason for its operation; The date(s) of operation and the start up and shut down time; The total operating time for testing or maintenance based on the generator's hour meter; and The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] &. [N.J.A.C. 7:27-19.11]</p>	None.

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

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

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Hours of Operation <= 100 hr/yr for testing and maintenance for each piece of equipment. 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 equipment. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
9	VOC (Total) <= 0.43 tons/yr. Annual emission limit based on the permitted hours per year of testing & maintenance. From BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	NOx (Total) <= 4.51 tons/yr. Annual emission limit based on the permitted hours per year of testing & maintenance. From BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	CO <= 0.97 tons/yr. Annual emission limit based on the permitted hours per year of testing & maintenance. From BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO2 <= 0.3 tons/yr. Annual emission limit based on the permitted hours per year of testing & maintenance. From BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 0.32 tons/yr. Annual emission limit based on the permitted hours per year of testing & maintenance. From BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	PM-10 (Total) <= 0.32 tons/yr. Annual emission limit based on the permitted hours per year of testing & maintenance. From BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	The owner or operator of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 shall change oil and filter every 500 hours of operation or annually, whichever comes first, as prescribed in Table 2c, item 1a to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6602]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the oil and filter change. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
16	The owner or operator of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary, as prescribed in Table 2c, item 1b and 1c to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6602]	Other: The owner or operator shall inspect air cleaner every 1000 hours or annually, whichever comes first and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the maintenance procedures and air cleaner, belt and hoses replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
17	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.
18	At all times the owner or operator must operate and maintain a RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.

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

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

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

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

Emission Unit: U5 Utilities, subject to MACT Subpart ZZZZ

Operating Scenario: OS2 Emergency Generator - Phos Esters 1 (North), OS3 Emergency Generator - Phos Esters 2 (South), OS4 Emergency Generator - Compressor Shed

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.98 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 3.3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 2.03 lb/hr. Maximum emission rate each for 3 Emergency Generators (E402 - 404). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 21.3 lb/hr. Maximum emission rate each for 3 Emergency Generators (E402 - 404). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 4.59 lb/hr. Maximum emission rate each for 3 Emergency Generators (E402 - 404). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2 <= 1.4 lb/hr. Maximum emission rate each for 3 Emergency Generators (E402 - 404). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	TSP <= 1.5 lb/hr. Maximum emission rate each for 3 Emergency Generators (E402 - 404). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 1.5 lb/hr. Maximum emission rate each for 3 Emergency Generators (E402 - 404). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U5 Utilities, subject to MACT Subpart ZZZZ

Operating Scenario: OS5 West Water Diesel Pump

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.7 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 2.84 MMBTU/hr (HHV) for the West Water Diesel Pump (E405). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 1.79 lb/hr. Maximum emission rate for the West Water Diesel Pump (E405). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 18.8 lb/hr. Maximum emission rate for the West Water Diesel Pump (E405). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 4.04 lb/hr. Maximum emission rate for the West Water Diesel Pump (E405). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2 <= 1.23 lb/hr. Maximum emission rate for the West Water Diesel Pump (E405). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	TSP <= 1.32 lb/hr. Maximum emission rate for the West Water Diesel Pump (E405). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 1.32 lb/hr. Maximum emission rate for the West Water Diesel Pump (E405). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U5 Utilities, subject to MACT Subpart ZZZZ

Operating Scenario: OS6 Emergency Generator - WWTP

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.66 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 1.1 MMBTU/hr (HHV) for the WWTP Diesel Generator (E406). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.72 lb/hr. Maximum emission rate for the WWTP Diesel Generator (E406). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 7.54 lb/hr. Maximum emission rate for the WWTP Diesel Generator (E406). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 1.62 lb/hr. Maximum emission rate for the WWTP Diesel Generator (E406). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2 <= 0.5 lb/hr. Maximum emission rate for the WWTP Diesel Generator (E406). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	TSP <= 0.53 lb/hr. Maximum emission rate for the WWTP Diesel Generator (E406). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 0.53 lb/hr. Maximum emission rate for the WWTP Diesel Generator (E406). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total): In order to characterize the pollutants in the intake water to the Wastewater Treatment Plant, the permittee shall take a representative sample of the intake waste stream for VOC Priority Pollutant Scan and Base/Neutral Priority Pollutant Scan and Library Search on a weekly basis. All intake waste streams must be represented in the sample by conducting sampling after the waste streams are consolidated or by sampling individual waste streams collectively. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by wastewater sampling each week during operation. The Base/Neutral Priority Pollutant Scan sample will be a 24 hour composite. If the data shows consistent compliance after 12 consecutive months of sampling, the facility may submit to the Department a minor modification request to reduce the frequency of influent wastewater sampling. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by certified lab analysis results each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
2	Flowrate <= 2,000,000 gal/day through the wastewater process. [N.J.A.C. 7:27-22.16(e)]	Monitored by material feed/flow monitoring continuously pursuant to the facility's NJPDES Permit. The meter shall meet the specifications of the NJPDES Program. [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.
3	The permittee shall record the following for VOC emissions: i. The date of operation ii. The amount of wastewater discharged per day from Outfall 001 iii. The amount of raw material fed to each production process, as required by Emission Units 1-5. [N.J.A.C. 7:27-22.16(e)]	None.	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.
4	VOC (Total) <= 134 tons/yr. Annual emission limit based on wastewater throughput and USEPA Water9 calculations. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	HAPs (Total) <= 59.4 tons/yr. Annual emission limit based on benzene, benzyl chloride, ethyl chloride, hexachlorobenzene, hydrogen chloride, phenol, phthalic anhydride, toluene, and triethylamine. From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Ammonia <= 8.51 tons/yr. Annual emission limit of this non-HAP based on wastewater throughput and USEPA Water9 calculations. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Benzene <= 0.05 tons/yr. Annual emission limit of this HAP based on wastewater throughput and USEPA Water9 calculations. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Benzyl chloride <= 0.322 tons/yr. Annual emission limit of this HAP based on wastewater throughput and USEPA Water9 calculations. From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Ethyl chloride <= 35.8 tons/yr. Annual emission limit of this HAP based on wastewater throughput and USEPA Water9 calculations. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	Hydrogen chloride <= 0.01 tons/yr. Annual emission limit of this HAP based on wastewater throughput and USEPA Water9 calculations. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	Phenol <= 0.396 tons/yr. Annual emission limit of this HAP based on wastewater throughput and USEPA Water9 calculations. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	Phthalic anhydride <= 0.321 tons/yr. Annual emission limit of this HAP based on wastewater throughput and USEPA Water9 calculations. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	Toluene <= 13.7 tons/yr. Annual emission limit of this HAP based on wastewater throughput and USEPA Water9 calculations. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	Triethylamine <= 8.8 tons/yr. Annual emission limit of this HAP based on wastewater throughput and USEPA Water9 calculations. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS1 Phenol Equalization Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.097 lb/hr. Maximum emission rate for Phenol Equalization Tank (E501). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Phenol <= 0.047 lb/hr. Maximum emission rate of this HAP for Phenol Equalization Tank (E501). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS2 Stormwater Basin

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.0003 lb/hr. Maximum emission rate for Stormwater Basin (E502). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Ethyl chloride <= 0.0000063 lb/hr. Maximum emission rate of this HAP for Stormwater Basin (E502). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Phenol <= 0.0001 lb/hr. Maximum emission rate of this HAP for Stormwater Basin (E502). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Phthalic anhydride <= 0.00002 lb/hr. Maximum emission rate of this HAP for Stormwater Basin (E502). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Toluene <= 0.0001 lb/hr. Maximum emission rate of this HAP for Stormwater Basin (E502). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Triethylamine <= 0.0001 lb/hr. Maximum emission rate of this HAP for Stormwater Basin (E502). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS3 Stormwater Lagoon

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.096 lb/hr. Maximum emission rate for Stormwater Lagoon 1 (E503). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Ethyl chloride <= 0.00011 lb/hr. Maximum emission rate of this HAP for Stormwater Lagoon 1 (E503). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Phenol <= 0.002 lb/hr. Maximum emission rate of this HAP for Stormwater Lagoon 1 (E503). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Phthalic anhydride <= 0.0004 lb/hr. Maximum emission rate of this HAP for Stormwater Lagoon 1 (E503). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Toluene <= 0.002 lb/hr. Maximum emission rate of this HAP for Stormwater Lagoon 1 (E503). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Triethylamine <= 0.001 lb/hr. Maximum emission rate of this HAP for Stormwater Lagoon 1 (E503). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS5 Neutralizer #1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 2.98 lb/hr. Maximum emission rate for Neutralizing Tank 1 (E505). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzene <= 0.0005 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 1 (E505). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Ethyl chloride <= 0.104 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 1 (E505). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Phenol <= 0.0007 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 1 (E505). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Phthalic anhydride <= 0.0004 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 1 (E505). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Toluene <= 0.039 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 1 (E505). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Triethylamine <= 0.023 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 1 (E505). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS6 Neutralizer #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 2.95 lb/hr. Maximum emission rate for Neutralizing Tank 2 (E506). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzene <= 0.0005 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 2 (E506). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Ethyl chloride <= 0.08 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 2 (E506). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Phenol <= 0.0006 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 2 (E506). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Phthalic anhydride <= 0.0004 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 2 (E506). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Toluene <= 0.038 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 2 (E506). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Triethylamine <= 0.023 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 2 (E506). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS7 Neutralizer #3

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 2.94 lb/hr. Maximum emission rate for Neutralizing Tank 3 (E507). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzene <= 0.0005 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 3 (E507). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Ethyl chloride <= 0.062 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 3 (E507). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Phenol <= 0.0006 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 3 (E507). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Phthalic anhydride <= 0.0004 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 3 (E507). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Toluene <= 0.036 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 3 (E507). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Triethylamine <= 0.023 lb/hr. Maximum emission rate of this HAP for Neutralizing Tank 3 (E507). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS8 Primary Clarifier, OS9 Primary Clarifier

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 2.62 lb/hr. Maximum emission rate for Primary Clarifiers (E508 & 509), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzene <= 0.0002 lb/hr. Maximum emission rate of this HAP for Primary Clarifiers (E508 & 509), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Benzyl chloride <= 0.03 lb/hr. Maximum emission rate of this HAP for Primary Clarifiers (E508 & 509), each. From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Ethyl chloride <= 0.014 lb/hr. Maximum emission rate of this HAP for Primary Clarifiers (E508 & 509), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Phenol <= 0.004 lb/hr. Maximum emission rate of this HAP for Primary Clarifiers (E508 & 509), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Phthalic anhydride <= 0.003 lb/hr. Maximum emission rate of this HAP for Primary Clarifiers (E508 & 509), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Toluene <= 0.028 lb/hr. Maximum emission rate of this HAP for Primary Clarifiers (E508 & 509), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	Triethylamine <= 0.1 lb/hr. Maximum emission rate of this HAP for Primary Clarifiers (E508 & 509), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS11 Aeration Basin, OS12 Aeration Basin

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 3.13 lb/hr. Maximum emission rate for Aeration Basins (E511 & 512), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Ammonia <= 0.5 lb/hr. Maximum emission rate of this HAP for Aeration Basins (E511 & 512), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Benzene <= 0.001 lb/hr. Maximum emission rate of this HAP for Aeration Basins (E511 & 512), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Benzyl chloride <= 0.14 lb/hr. Maximum emission rate of this HAP for Aeration Basins (E511 & 512), each. From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Ethyl chloride <= 0.007 lb/hr. Maximum emission rate of this HAP for Aeration Basins (E511 & 512), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	HCl Emissions <= 0.0003 lb/hr. Maximum emission rate of this HAP for Aeration Basins (E511 & 512), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Phenol <= 0.001 lb/hr. Maximum emission rate of this HAP for Aeration Basins (E511 & 512), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	Phthalic anhydride <= 0.03 lb/hr. Maximum emission rate of this HAP for Aeration Basins (E511 & 512), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	Toluene <= 0.288 lb/hr. Maximum emission rate of this HAP for Aeration Basins (E511 & 512), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	Triethylamine <= 0.22 lb/hr. Maximum emission rate of this HAP for Aeration Basins (E511 & 512), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS13 Secondary Clarifier, OS14 Secondary Clarifier

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) < 0.05 lb/hr (below reporting threshold). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Ammonia <= 0.0003 lb/hr. Maximum emission rate of this HAP for Secondary Clarifiers (E513 & 514), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Ethyl chloride <= 0.00005 lb/hr. Maximum emission rate of this HAP for Secondary Clarifiers (E513 & 514), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Phthalic anhydride <= 0.0002 lb/hr. Maximum emission rate of this HAP for Secondary Clarifiers (E513 & 514), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Triethylamine <= 0.0007 lb/hr. Maximum emission rate of this HAP for Secondary Clarifiers (E513 & 514), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS15 Equalization Surge Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 2 lb/hr. Maximum emission rate for Equalization Surge Tank (E515). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Benzene <= 0.0001 lb/hr. Maximum emission rate of this HAP for Equalization Surge Tank (E515). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Ethyl chloride <= 0.002 lb/hr. Maximum emission rate of this HAP for Equalization Surge Tank (E515). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Phthalic anhydride <= 0.0001 lb/hr. Maximum emission rate of this HAP for Equalization Surge Tank (E515). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Toluene <= 0.024 lb/hr. Maximum emission rate of this HAP for Equalization Surge Tank (E515). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Trimethylamine <= 0.002 lb/hr. Maximum emission rate of this HAP for Equalization Surge Tank (E515). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS16 Secondary Sludge Thickener, OS17 Rotary Drum Thickener, OS22 Sludge Loading Spot

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) < 0.05 lb/hr (below reporting threshold). [N.J.A.C. 7:27-16.16(d)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant
Operating Scenario: OS18 Primary Sludge Storage Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.1 lb/hr. Maximum emission rate for Reactor Storage Tank (E518). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Phenol <= 0.009 lb/hr. Maximum emission rate of this HAP for Reactor Storage Tank (E518). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Phthalic anhydride <= 0.0002 lb/hr. Maximum emission rate of this HAP for Reactor Storage Tank (E518). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Toluene <= 0.003 lb/hr. Maximum emission rate of this HAP for Reactor Storage Tank (E518). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Triethylamine <= 0.0008 lb/hr. Maximum emission rate of this HAP for Reactor Storage Tank (E518). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS19 AFC Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.314 lb/hr. Maximum emission rate for Thermophilic Reactor (E519). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Ammonia <= 1 lb/hr. Maximum emission rate of this HAP for Thermophilic Reactor (E519). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Benzene <= 0.0001 lb/hr. Maximum emission rate of this HAP for Thermophilic Reactor (E519). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Benzyl chloride <= 0.02 lb/hr. Maximum emission rate of this HAP for Thermophilic Reactor (E519). From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Toluene <= 0.07 lb/hr. Maximum emission rate of this HAP for Thermophilic Reactor (E519). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS25 Filter Feed Tank, OS27 Filter Reject Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Records must be maintained at the site to document compliance with VOC emission limits for each source operation.[N.J.A.C. 7:27-16.16(g)].	Other: For each different kind of batch or continuous process for which the source operation is used the permittee shall record the following information in accordance with the Procedure for Using Table 16A: 1.The chemical name and vapor pressure of each VOC used, 2. The percent concentration by volume of VOC in the source gas, 3. The volumetric gas flow rate, 4. The source gas range classification, 5. The maximum allowable emission rate, 6. The maximum actual emission rate for each process and maintain the calculations and any test data used to determine the actual emission rate for each process, 7. Record the dates on which the source operation is used for each process. Alternatively, the permittee shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations after any control does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.027 lb/hr. Maximum emission rate for Filter Feed Tank (E526) and Filter Reject Tank (E527), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Ethyl chloride <= 0.004 lb/hr. Maximum emission rate of this HAP for Filter Feed Tank (E526) and Filter Reject Tank (E527), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Phenol <= 0.0001 lb/hr. Maximum emission rate of this HAP for Filter Feed Tank (E526) and Filter Reject Tank (E527), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Phthalic anhydride <= 0.001 lb/hr. Maximum emission rate of this HAP for Filter Feed Tank (E526) and Filter Reject Tank (E527), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Toluene <= 0.001 lb/hr. Maximum emission rate of this HAP for Filter Feed Tank (E526) and Filter Reject Tank (E527), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Triethylamine <= 0.01 lb/hr. Maximum emission rate of this HAP for Filter Feed Tank (E526) and Filter Reject Tank (E527), each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant
Operating Scenario: OS28 WWTP Conveyance System

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Beginning on May 31, 1995, the owner or operator shall comply with either N.J.A.C. 7:27-16.17(b)2i or N.J.A.C. 7:27-16.17(b)2ii below: i. Use control apparatus that the Department has determined (pursuant to N.J.A.C. 7:27-16.17(l) will collect at least 90 percent by weight of the VOC emissions from the source operation and prevent from being discharged into the outdoor atmosphere at least 90 percent by weight of the VOC collected; or, ii. Operate the facility in accordance with an alternative VOC control plan approved by the Department pursuant to N.J.A.C. 7:27-16.17(j). [N.J.A.C. 7:27-16.17(b)2]	None.	None.	Submit a report: As per the approved schedule The owner or operator shall submit an application to modify this operating permit within 30 days of the approval, approval and modification, or disapproval of the proposed alternative VOC control plan submitted pursuant to N.J.A.C 7:27-16.17. [N.J.A.C. 7:27-22]
2	Maintain up-to-date MON MACT applicability status and compliance information. All facility wastewater streams are Group 2 based on the initial applicability point of determination (POD) sampling and analysis. [40 CFR 63.2550]	Monitored by other method (provide description) upon occurrence of event. Maintain up-to-date MON MACT applicability status by use of Management of Change (MOC) Program to alert the facility of the need to review the POD data. Conduct process analysis and engineering calculations and/or POD testing and analysis, as necessary, to update compliance status. [N.J.A.C. 7:27-22]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain initial and subsequent records of wastewater POD and analytical results demonstrating Table 8 and Table 9 compound concentrations and MON group status. [40 CFR 63.2525]	Submit a report: Upon occurrence of event. Document the results of the initial applicability determinations for the PODs in the NOCS report due October 7, 2008. Report in semi-annual compliance report if any wastewater stream goes from Group 2 to Group 1 sixty (60) days prior to implementation of change. [40 CFR 63.2520]
3	Benzyl chloride <= 0.032 lb/hr. From BOP170001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U6 Wastewater Treatment Plant

Operating Scenario: OS29 1.5 Million Gallon Equalization Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16, in excess of the maximum allowable emission rate, as determined in accordance with the procedure in N.J.A.C. 7:27-16.16(d). [N.J.A.C. 7:27-16.16(c)]	None.	None.	None.
2	VOC (Total) <= 3 lb/hr. Maximum emission rate for 1.5 Million Gallon Equalization Tank (E529). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Benzene <= 0.0004 lb/hr. Maximum emission rate of this HAP for 1.5 Million Gallon Equalization Tank (E529). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Benzyl chloride <= 0.07 lb/hr. Maximum emission rate of this HAP for 1.5 Million Gallon Equalization Tank (E529). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Ethyl chloride <= 0.01 lb/hr. Maximum emission rate of this HAP for 1.5 Million Gallon Equalization Tank (E529). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HCl Emissions <= 0.0001 lb/hr. Maximum emission rate of this HAP for 1.5 Million Gallon Equalization Tank (E529). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Phenol <= 0.018 lb/hr. Maximum emission rate of this HAP for 1.5 Million Gallon Equalization Tank (E529). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Phthalic anhydride <= 0.01 lb/hr. Maximum emission rate of this HAP for 1.5 Million Gallon Equalization Tank (E529). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Toluene <= 0.066 lb/hr. Maximum emission rate of this HAP for 1.5 Million Gallon Equalization Tank (E529). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Triethylamine <= 0.19 lb/hr. Maximum emission rate of this HAP for 1.5 Million Gallon Equalization Tank (E529). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U7 Two Boilers, firing Natural Gas & #2 Fuel (Emergency Use Only), subject to MACT Subpart DDDDD and NSPS Subpart Dc

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Federal Requirements: 40 CFR 60 Subpart A 40 CFR 60 Subpart Dc 40 CFR 63 Subpart A 40 CFR 63 Subpart DDDDD [40 CFR Federal Rules Summary]	None.	None.	None.
2	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS3, and for VOC, NOx, and CO as specified in the compliance plan for OS5</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>THIS STACK TEST IS SUBJECT TO THE SIGNIFICANT MODIFICATION SUPPLEMENTAL FEES PURSUANT TO N.J.A.C. 7:27-22.31. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: The stack test must be conducted, for a new or modified source, within 180 days after initial startup of the new or modified source or within 60 days of approval of a timely submitted protocol, whichever comes later.</p> <p>Pursuant to N.J.A.C. 7:27-16.23(c) and 19.15(c), the initial stack test to demonstrate compliance with VOC/NOx RACT standards shall be conducted within 180 days from the date on which source operation commences operation. [N.J.A.C. 7:27-22.18] & [N.J.A.C. 7:27-22.16(o)].</p>	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved modified operating permit BOP220001. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] & [N.J.A.C. 7:27-22.18(h)]</p>

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

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

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
5	VOC (Total) <= 2.88 tons/yr (1.02 tons/yr from Vogt, 1.86 tons/yr from Murray). Annual emission limit based on worst case fuel usage (Annual Max Fuel Oil with Remainder Natural Gas). [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month 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. [N.J.A.C. 7:27-22.16(o)]	None.
6	NOx (Total) <= 10.88 tons/yr (7.14 tons/yr from Vogt, 3.74 tons/yr from Murray). Annual emission limit based on worst case fuel usage (Annual Max Fuel Oil with Remainder Natural Gas). [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	CO <= 24.61 tons/yr (10.16 tons/yr from Vogt, 14.45 tons/yr from Murray). Annual emission limit based on worst case fuel usage (All Natural Gas). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	SO2 <= 0.39 tons/yr (0.14 tons/yr from Vogt, 0.25 tons/yr from Murray). Annual emission limit based on worst case fuel usage (Annual Max Fuel Oil with Remainder Natural Gas). [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	SO2: 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.
9	TSP <= 2.91 tons/yr (1.03 tons/yr from Vogt, 1.88 tons/yr from Murray). Annual emission limit based on worst case fuel usage (Annual Max Fuel Oil with Remainder Natural Gas). [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [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
10	PM-10 (Total) <= 2.91 tons/yr (1.03 tons/yr from Vogt, 1.88 tons/yr from Murray). Annual emission limit based on worst case fuel usage (Annual Max Fuel Oil with Remainder Natural Gas). [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
11	PM-2.5 (Total) <= 2.91 tons/yr (1.03 tons/yr from Vogt, 1.88 tons/yr from Murray). Annual emission limit based on worst case fuel usage (Annual Max Fuel Oil with Remainder Natural Gas). [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (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.
12	Methane <= 1.28 tons/yr (0.45 tons/yr from Vogt, 0.83 tons/yr from Murray). Annual emission limit based on worst case fuel usage (Annual Max Fuel Oil with Remainder Natural Gas). [N.J.A.C. 7:27-22.16(a)]	Methane: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Methane: 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.
13	HAPs (Total) <= 0.0429 tons/yr (85.8 lb/yr). Annual emission limit based on Beryllium Emissions, Cobalt Emissions, 7,12-Dimethylbenz(a)anthracene, Formaldehyde, and Nickel Emissions. . [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	HAPs (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.
14	Beryllium Emissions <= 0.00001 tons/yr (0.02 lb/yr). Annual emission limit of this HAP from Murray Boiler only based on worst case fuel usage (Annual Max Fuel Oil with Remainder Natural Gas). [N.J.A.C. 7:27-22.16(a)]	Beryllium Emissions: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Beryllium Emissions: 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.
15	Cobalt Emissions <= 0.0000462 tons/yr (0.0924 lb/yr total; 1.64E-05 tons/yr from Vogt, 2.98E-05 tons/yr from Murray). Annual emission limit of this HAP based on worst case fuel usage (Annual Max Fuel Oil with Remainder Natural Gas). [N.J.A.C. 7:27-22.16(a)]	Cobalt Emissions: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Cobalt Emissions: 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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16	Dimethylbenz(a)anthracene (7,12-) <= 0.00000879 tons/yr (0.01758 lb/yr total; 3.11E-06 tons/yr from Vogt, 5.68E-06 tons/yr from Murray). Annual emission limit of this HAP based on on worst case fuel usage (All Natural Gas). [N.J.A.C. 7:27-22.16(a)]	Dimethylbenz(a)anthracene (7,12-): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Dimethylbenz(a)anthracene (7,12-): 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.
17	Formaldehyde <= 0.0417 tons/yr (83.4 lb/yr total; 1.48E-02 tons/yr from Vogt, 2.69E-02 tons/yr from Murray). Annual emission limit of this HAP based on worst case fuel usage (Annual Max Fuel Oil with Remainder Natural Gas). [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: 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.
18	Nickel Emissions <= 0.00116 tons/yr (2.32 lb/yr total; 4.10E-04 tons/yr from Vogt, 7.47E-04 tons/yr from Murray). Annual emission limit of this HAP based on worst case fuel usage (Annual Max Fuel Oil with Remainder Natural Gas). [N.J.A.C. 7:27-22.16(a)]	Nickel Emissions: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Nickel Emissions: 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.
19	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]
20	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. (NSPS Subpart A) [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]
22	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the actual date of initial startup of an affected facility postmarked within 15 days after such date. (NSPS Subpart A) [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(3)]

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

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. (NSPS Subpart A) [40 CFR 60.7(f)]	None.	Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the dates of the record, except as prescribed in 40 CFR 60.7(f)(1) through (3). Sources subject to 40 CFR 70, are required to retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application, per 40 CFR 70.6(a)(3)(ii)(B). [40 CFR 60.7(f)].	None.
26	The owner or operator shall demonstrate compliance with NSPS opacity standards specified in 40 CFR Part 60. (NSPS Subpart A) [40 CFR 60.11(b)]	Monitored by visual determination once initially, based on 6 minute blocks. Testing shall be conducted using Reference Method 9 in Appendix A of NSPS. For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-min averages) for the performance test. [40 CFR 60.11(b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain records of opacity of emissions based on Method 9 observations. [40 CFR 60.11(e)(2)]	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit results of Method 9 observation data to the Administrator. [40 CFR 60.11(e)(2)]
27	The NSPS opacity standard shall apply at all times except during periods of startup, shutdown, malfunctions and as otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.11(c)]	None.	None.	None.

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28	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
29	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
30	The owner or operator shall notify the Administrator of the proposed replacement of components, upon triggering reconstruction as defined at 40 CFR 60.15. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
32	Sulfur Content in Fuel <= 0.5 weight %. No owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. (NSPS Subpart Dc). [40 CFR 60.42c(d)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	<p>Sulfur Content in Fuel: Recordkeeping by fuel supplier certifications pursuant to 40 CFR Part 60.48c(f) once per bulk fuel shipment. If fuel supplier certification is used to demonstrate compliance, keep records of fuel supplier certification as described under 40 CFR 60.48c(f)(1), (2), (3), or (4), as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.</p> <p>All records shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record. [40 CFR 60.48c(e)(11)] & [40 CFR 60.48c(i)]</p>	Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The owner or operator of each affected facility subject to fuel oil sulfur limits under 40 CFR 60.42c shall submit reports to the Administrator. [40 CFR 60.48c(d)] & [40 CFR 60.48c(j)]

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33	<p>Opacity <= 20 %. No owner or operator of an affected facility that combusts coal, wood, or oil and has a heat input capacity of 8.7 MW (30 MMBtu/h) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.</p> <p>The opacity standards apply at all times, except during periods of startup, shutdown, or malfunction. (NSPS Subpart Dc) [40 CFR 60.43c(c)] &. [40 CFR 60.43c(d)]</p>	<p>Other: The owner or operator of an affected facility subject to an opacity standard in 40 CFR 60.43c(c) that is not required to use a COMS due to 40 CFR 60.47(f) that elects not to use a COMS shall conduct a performance test using Method 9 of appendix A-4 of this part and the procedures in 40 CFR 60.11 to demonstrate compliance with the applicable limit in 40 CFR 60.43c by April 29, 2011, within 45 days of stopping use of an existing COMS, or within 180 days after initial startup of the facility, whichever is later, and shall comply with 40 CFR 60.47c(a)(1), (a)(2), or (a)(3). The observation period for Method 9 of appendix A-4 of this part performance tests may be reduced from 3 hours to 60 minutes if all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent during the initial 60 minutes of observation.[40 CFR 60.47c(a)].</p>	<p>Other: All records of the initial and all subsequent performance tests shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.[40 CFR 60.48c(i)].</p>	<p>Comply with the requirement: Upon occurrence of event. The owner or operator of each affected facility subject to the opacity limits of 40 CFR 60.43c, shall submit to the EPA Administrator the performance test data from the initial and any subsequent performance tests.</p> <p>In addition to the applicable requirements in 40 CFR 60.7, the owner or operator of an affected facility subject to the opacity limits in 40 CFR 60.43c(c) shall submit excess emission reports for any excess emissions from the affected facility that occur during the reporting period and maintain records according to the requirements specified in 40 CFR 60.48c(c)(1) through (3), as applicable to the visible emissions monitoring method used. [40 CFR 60.48c(b)) &. [40 CFR 60.48c(c)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
34	<p>The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction and actual startup, as provided by 40 CFR 60.7. This notification shall include:</p> <p>(1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.</p> <p>(2) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR 60.42c, or 40 CFR 60.43c.</p> <p>(3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.</p> <p>(4) Notification if an emerging technology will be used for controlling SO₂ emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of 40 CFR 60.42c(a) or (b)(1), unless and until this determination is made by the Administrator. (NSPS Subpart Dc) [40 CFR 60.48c(a)]</p>	None.	Other: Keep copy of the initial notification and make it available to the Department, upon request.[N.J.A.C. 7:27-22.16(o)].	<p>Submit notification: Once initially. The owner or operator shall submit the initial notification to the following agencies:</p> <p>USEPA Region 2 Division of Enforcement and Compliance Assistance - Air Branch 290 Broadway New York, New York 10007-1866</p> <p>and</p> <p>to the appropriate NJDEP Air Compliance and Enforcement Office at the address available at http://www.nj.gov/dep/enforcement/air.html. [40 CFR 60.48c(a)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	The owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f) to demonstrate compliance with the SO ₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month. (NSPS Subpart Dc) [40 CFR 60.48c(g)(2)]	Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). [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. All records shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record. [N.J.A.C. 7:27-22.16(o)] &. [40 CFR 60.48c(i)]	None.
36	At all times, the permitte must operate and maintain any affected source (as defined in 40 CFR 63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (MACT Subpart DDDDD) [40 CFR 63.7500(a)(3)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	<p>You must complete the one-time energy assessment specified in Table 3 to 40 CFR 63 Subpart DDDDD no later than the compliance date specified in 40 CFR 63.7495.</p> <p>If your unit is an existing boiler located at a major source facility, you must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in Table 3, satisfies the energy assessment requirement. A facility that operated under an energy management program developed according to the ENERGY STAR guidelines for energy management or compatible with ISO 50001 for at least one year between January 1, 2008 and the compliance date specified in 40 CFR 63.7495 that includes the affected units also satisfies the energy assessment requirement. [MACT Subpart DDDDD) [40 CFR 63.7510(e)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. The energy assessment must include the following with extent of the evaluation for items a. to e. appropriate for the on-site technical hours listed in 40 CFR 63.7575:</p> <ul style="list-style-type: none"> a. A visual inspection of the boiler or process heater system. b. An evaluation of operating characteristics of the boiler or process heater systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints. c. An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the boiler/process heater owner/operator. d. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage. e. A review of the facility's energy management program and provide recommendations for improvements consistent with the definition of energy management program, if identified. f. A list of cost-effective energy conservation measures that are within the facility's control. g. A list of the energy savings potential of the energy conservation measures identified. h. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments. <p>[40 CFR 63.7510(e)]</p>	<p>Submit notification: Once initially. Submit a Notification of Compliance status for existing sources within 60 days of January 31, 2016 that includes the information in 40 CFR 63.7545(e)(1) and (e)(8) as follows:</p> <p>(1) A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration</p> <p>(8) In addition to the information required in 40 CFR 63.9(h)(2), your notification of compliance status must include the certification(s) of compliance, as applicable, and signed by a responsible official as described in 40 CFR 63.7545(e)(8)((i)-(iii). [40 CFR 63.7545(e)]</p>

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38	If your boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, you must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in 40 CFR 63.7540(a)(10)(i)-(vi). You must conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. (continued) (MACT Subpart DDDDD) [40 CFR 63.7540(a)(10)]	Monitored by periodic emission monitoring annually. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR 63.7540(10)(v)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Maintain on-site and submit, if requested by the Administrator, a report containing the following information: (A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater; (B) A description of any corrective actions taken as a part of the tune-up; and (C) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.10(b)(1)] &. [40 CFR 63.7540(a)(10)(vi)]	Submit notification: Once initially. Submit a Notification of Compliance status for existing sources within 60 days of January 31, 2016 that includes the information in 40 CFR 63.7545(e)(1) and (e)(8) as follows: (1) A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration (8) In addition to the information required in 40 CFR 63.9(h)(2), your notification of compliance status must include the certification(s) of compliance, as applicable, and signed by a responsible official as described in 40 CFR 63.7545(e)(8)((i)-(iii). [40 CFR 63.7545(e)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
39	<p>(continued)</p> <p>(i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;</p> <p>(ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;</p> <p>(iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;</p> <p>(iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject. (MACT Subpart DDDDD) [40 CFR 63.7540(a)(10)]</p>	<p>Monitored by periodic emission monitoring annually. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR 63.7540(10)(v)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Maintain on-site and submit, if requested by the Administrator, a report containing the following information:</p> <p>(A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;</p> <p>(B) A description of any corrective actions taken as a part of the tune-up; and</p> <p>(C) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.</p> <p>The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.10(b)(1)] &. [40 CFR 63.7540(a)(10)(vi)]</p>	<p>Submit notification: Once initially. Submit a Notification of Compliance status for existing sources within 60 days of January 31, 2016 that includes the information in 40 CFR 63.7545(e)(1) and (e)(8) as follows:</p> <p>(1) A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration</p> <p>(8) In addition to the information required in 40 CFR 63.9(h)(2), your notification of compliance status must include the certification(s) of compliance, as applicable, and signed by a responsible official as described in 40 CFR 63.7545(e)(8)((i)-(iii). [40 CFR 63.7545(e)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
40	As specified in 40 CFR 63.9(b)(2), if you startup your affected source before January 31, 2013, you must submit an Initial Notification not later than 120 days after January 31, 2013, or no later than 120 days after the source becomes subject to 40 CFR 63 Subpart DDDDD, whichever is later. (MACT Subpart DDDDD) [40 CFR 63.7545(b)]	None.	None.	Submit notification: Once initially within 120 days after January 31, 2013 or 15 days after the actual date of startup, whichever is later, to the Administrator, EPA Region 2, certified by the responsible official. The Initial Notification shall also be submitted to NJDEP, per 40 CFR 63.13. [N.J.A.C. 7:27-22.16(o)] &. [40 CFR 63.7545(b)]
41	<p>The owner or operator that intends to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of 40 CFR 63, 40 CFR 60, 61, or 65, or other gas 1 fuel during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575.</p> <p>The notification must include the following information:</p> <p>(1) Company name and address. (2) Identification of the affected unit. (3) Reason you are unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began. (4) Type of alternative fuel that you intend to use. (5) Dates when the alternative fuel use is expected to begin and end. (MACT Subpart DDDDD) [40 CFR 63.7545(f)]</p>	None.	None.	Submit notification: Upon occurrence of event within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, to the Administrator, EPA Region 2, certified by the responsible official and to NJDEP, per 40 CFR 63.13. [N.J.A.C. 7:27-22.16(o)] &. [40 CFR 63.7545(f)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
42	If you have switched fuels or made a physical change to the boiler and the fuel switch or physical change resulted in the applicability of a different subcategory, you must provide notice of the date upon which you switched fuels or made the physical change within 30 days of the switch/change. (MACT Subpart DDDDD) [40 CFR 63.7545(h)(1)]	None.	None.	<p>Submit notification: As per the approved schedule. The notification must be submitted within 30 days of the change and must include the following information:</p> <p>(1) The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, the location of the source, the boiler(s) that have switched fuels, were physically changed, and the date of the notice;</p> <p>(2) The currently applicable subcategory under 40 CFR 63 Subpart DDDDD;</p> <p>(3) The date upon which the fuel switch or physical change occurred. [40 CFR 63.7545(h)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
43	<p>For units that are subject only to a requirement to conduct subsequent annual tune-up according to 40 CFR 63.7540(a)(10), and not subject to emission limits or Table 4 operating limits, you may submit only an annual compliance report, as applicable, as specified in 40 CFR 63.7550(b)(1) through (4), instead of a semi-annual compliance report.</p> <p>The report must contain the following information:</p> <p>(1) Company and Facility name and address. (2) Process unit information, emissions limitations, and operating parameter limitations (3) Date of report and beginning and ending dates of the reporting period. (4) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10). Include the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled unit shutdown. (5) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. (MACT Subpart DDDDD) [40 CFR 63.7550(b)] & [40 CFR 63.7550(c)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain files of all required information (including all reports and notifications) recorded in a form suitable and readily available for expeditious inspection and review. 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 63.10(b)]</p>	<p>Submit a report: As per the approved schedule. You must submit all reports required by Table 9 of 40 CFR 63 Subpart DDDDD electronically to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX.) You must use the appropriate electronic report in CEDRI for 40 CFR 63 Subpart DDDDD. Instead of using the electronic report in CEDRI for 40 CFR 63 Subpart DDDDD, you may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (http://www.epa.gov/ttn/chief/cedri/index.htm) once the XML schema is available. If the reporting form specific to 40 CFR 63 Subpart DDDDD is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [40 CFR 63.7550(h)(3)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
44	If you operate a unit in the unit designed to burn gas 1 subcategory that is subject to 40 CFR 63 Subpart DDDDD and you use an alternative fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart under this part, other gas 1 fuel, or gaseous fuel subject to another subpart of part 63 t or part 60, 61, or 65, you must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. (MACT Subpart DDDDD) [40 CFR 63.7555(h)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually of the total hours per calendar year. [N.J.A.C. 7:27-22.16(o)] & [40 CFR 63.7555(h)]	None.
45	The owner or operator of a boiler or process heater shall comply with the applicable General Provisions in 40 CFR 63 Subpart A as listed in Table 10 in 40 CFR 63 Subpart DDDDD. (MACT Subpart DDDDD) [40 CFR 63.7565]	None.	None.	None.

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

Emission Unit: U7 Two Boilers, firing Natural Gas & #2 Fuel (Emergency Use Only), subject to MACT Subpart DDDDD and NSPS Subpart Dc

Operating Scenario: OS2 Vogt - Burning Oil (Emergency Use Only)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity: No visible smoke except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 10.41 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.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [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. [N.J.A.C. 7:27-22.16(o)]	None.
4	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
5	Fuel type limited to #2 fuel oil. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum Gross Heat Input <= 44.1 MMBTU/hr (HHV) when firing #2 fuel oil. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>The permittee shall use fuel oil or other liquid fuel only if:</p> <p>1) The permittee is practicably not able to obtain a sufficient amount of natural gas;</p> <p>2) The permittee is not able to obtain natural gas due to circumstances beyond the control of the permittee, such as a natural gas curtailment; and</p> <p>3) The combustion source ceases using fuel oil or other liquid fuel in place of natural gas and resumes using natural gas as soon as a sufficient supply of natural gas becomes practicably available. [N.J.A.C. 7:27-22.16(a)], [N.J.A.C. 7:27-19.25(a)], & [N.J.A.C. 7:27-19.25(c)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event , Maintain records that include the following:</p> <p>For curtailment periods: 1) information sufficient to identify each combustion source for which the owner or operator claims an exemption, including a brief description of the source, its location, its permit number and other identifying numbers, and any other information necessary to distinguish it from other equipment owned and operated by the facility; 2) a statement that the owner or operator is not practicably able to obtain a sufficient supply of natural gas; 3) the date and time at which the owner or operator first became practicably unable to obtain natural gas; and 4) a description of the circumstances causing the owner or operator's inability to obtain natural gas.</p> <p>If no fuel oil or other liquid fuel was combusted during the year, maintain an on-site certification in accordance with N.J.A.C.7:27-1.39 stating that no fuel oil was combusted during this period. [N.J.A.C. 7:27-22.16(o)], [N.J.A.C. 7:27-19.25(c)], & [N.J.A.C. 7:27-19.25(d)]</p>	<p>Submit a report: Annually if fuel oil or other liquid fuel was combusted under the N.J.A.C.7:27-19.25 exemption. Submit the report by March 1 of each year for the preceding calendar year to the Regional Enforcement Office. The annual report shall include items 1) through 4) specified under the Recordkeeping Requirements section. The annual report shall also include any violations which occurred during the previous year. If no violations occurred during the year, the owner or operator shall provide certification that no violations occurred and that the records are maintained at the facility. [N.J.A.C. 7:27-19.19(g)(2)] &. [N.J.A.C. 7:27-19.25(d)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>Hours of Operation While Firing Fuel Oil <= 48 hours. Periodic testing on liquid fuel, maintenance, or operator training shall not exceed a combined total of 48 hours during any calendar year to be defined as a unit designed to burn gas 1 subcategory, as defined in MACT Subpart DDDDD, 40 CFR 63.7575.</p> <p>The owner or operator shall not fire fuel oil or other liquid fuel for 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 shown at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast. [N.J.A.C. 7:27-22.16(a)]</p>	None.	<p>Hours of Operation While Firing Fuel Oil: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the total number of hours fuel oil was combusted for periodic testing, maintenance, or operator training in a calendar year. Maintain readily accessible records onsite. [N.J.A.C. 7:27-22.16(o)]</p>	None.
9	VOC (Total) <= 0.44 lb/hr. Maximum emission rate based on vendor emission factor (0.010 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	NOx (Total) <= 2.65 lb/hr. Maximum emission rate based on vendor emission factor (0.060 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	CO <= 1.72 lb/hr. Maximum emission rate based on vendor emission factor (0.039 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO2 <= 0.88 lb/hr. Maximum emission rate based on AP-42 emission factor (0.020 lb/MMBTU) (S=0.02; 200 ppmvd). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 0.79 lb/hr. Maximum emission rate based on vendor emission factor (0.018 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	PM-10 (Total) <= 0.79 lb/hr. Maximum emission rate based on vendor emission factor (0.018 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-2.5 (Total) <= 0.79 lb/hr. Maximum emission rate based on 40 CFR 98 Subpart C Table C-2 emission factor (0.002 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Methane <= 0.29 lb/hr. Maximum emission rate based on 40 CFR 98 Subpart C Table C-2 emission factor for fuel gas (0.003 kg/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Formaldehyde <= 0.0102 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (2.32E-04 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Nickel Emissions <= 0.000132 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (3.00E-06 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U7 Two Boilers, firing Natural Gas & #2 Fuel (Emergency Use Only), subject to MACT Subpart DDDDD and NSPS Subpart Dc

Operating Scenario: OS3 Vogt - Burning Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity: No visible smoke except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 10.64 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.
3	Fuel type limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Natural Gas Usage <= 389.33 MMft ³ /yr based on 8,760 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The cubic feet for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
5	Maximum Gross Heat Input <= 46.4 MMBTU/hr (HHV) when firing natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	Flue Gas Recirculation Rate >= 5 % of flue gas at 18% excess air. The permittee shall utilize flue gas recirculation technology with a built-in control to continuously monitor the actuator position. [N.J.A.C. 7:27-22.16(a)]	Other: The permittee shall place the flue gas recirculation damper in a fixed position upon set-up, as designated by installer documentation and procedures. The damper's fixed position may be relocated based on stack test results. An alarm shall be triggered if the damper moves from the fixed position. Upon alarm trigger, the damper shall be manually placed back into the fixed position within 24 hours or the burner shall be shut off.[N.J.A.C. 7:27-22.16(o)].	Other: Keep record on-site of damper position. Alarm triggers and corrective actions shall be documented upon occurrence of each alarm event.[N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	VOC (Total) <= 0.23 lb/hr. Maximum emission rate based on vendor emission factor (0.005 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 0.05 lb/MMBTU. The owner or operator of an industrial/commercial/ institutional boiler or other indirect heat exchanger, with a maximum gross heat input rate of at least 25 million BTU per hour, whether or not it is located at a major NOx facility, but which is not located at a petroleum refinery, shall cause the boiler or other indirect heat exchanger to emit NOx at a rate no greater than the applicable maximum allowable NOx emission rate specified at N.J.A.C. 7:27-19 Table 9. [N.J.A.C. 7:27-19.7(i)1]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs and performed in compliance with N.J.A.C. 7:27-19.17. In accordance with N.J.A.C. 7:27-19.15(a)2, any NOx testing conducted pursuant to N.J.A.C. 7:27-19 shall be conducted concurrently with CO testing. The applicable NOx emission limits will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the CO limit in N.J.A.C. 7:27-16.8 or the permit limit for CO, whichever is more stringent, is also met. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. [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	NOx (Total) <= 0.035 lb/MMBTU. Emission factor based on vendor guarantee. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. [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)]
10	NOx (Total) <= 1.62 lb/hr. Maximum emission rate based on vendor emission factor (0.035 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. [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)]
11	CO <= 0.05 lb/MMBTU. State of the Art (SOTA) emission limit (SOTA Manual for Boilers and Process Heaters, Table 1a). [N.J.A.C. 7:27-22.35(c)5ii]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. [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)]
12	CO <= 2.32 lb/hr. Maximum emission rate based on SOTA emission limit (0.05 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. [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)]
13	TSP <= 0.23 lb/hr. Maximum emission rate based on vendor emission factor (0.005 lb/MMBTU). [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
14	PM-10 (Total) <= 0.23 lb/hr. Maximum emission rate based on vendor emission factor (0.005 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-2.5 (Total) <= 0.23 lb/hr. Maximum emission rate based on vendor emission factor (0.005 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Methane <= 0.1 lb/hr. Maximum emission rate based on 40 CFR 98 Subpart C Table C-2 emission factor for natural gas (0.001 kg/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Cobalt Emissions <= 0.00000373 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (8.05E-08 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Dimethylbenz(a)anthracene (7,12-) <= 7.11E-7 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (1.53E08 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Formaldehyde <= 0.00333 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (7.18E-05 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Nickel Emissions <= 0.0000933 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (2.01E-06 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Emission Unit: U7 Two Boilers, firing Natural Gas & #2 Fuel (Emergency Use Only), subject to MACT Subpart DDDDD and NSPS Subpart Dc

Operating Scenario: OS4 Murray - Burning Oil (Emergency Use Only)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity: No visible smoke except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 14 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.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [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. [N.J.A.C. 7:27-22.16(o)]	None.
4	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
5	Fuel type limited to #2 fuel oil. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum Gross Heat Input <= 80.3 MMBTU/hr (HHV) when firing #2 fuel oil. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>The permittee shall use fuel oil or other liquid fuel only if:</p> <p>1) The permittee is practicably not able to obtain a sufficient amount of natural gas;</p> <p>2) The permittee is not able to obtain natural gas due to circumstances beyond the control of the permittee, such as a natural gas curtailment; and</p> <p>3) The combustion source ceases using fuel oil or other liquid fuel in place of natural gas and resumes using natural gas as soon as a sufficient supply of natural gas becomes practicably available. [N.J.A.C. 7:27-22.16(a)], [N.J.A.C. 7:27-19.25(a)], & [N.J.A.C. 7:27-19.25(c)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event , Maintain records that include the following:</p> <p>For curtailment periods: 1) information sufficient to identify each combustion source for which the owner or operator claims an exemption, including a brief description of the source, its location, its permit number and other identifying numbers, and any other information necessary to distinguish it from other equipment owned and operated by the facility; 2) a statement that the owner or operator is not practicably able to obtain a sufficient supply of natural gas; 3) the date and time at which the owner or operator first became practicably unable to obtain natural gas; and 4) a description of the circumstances causing the owner or operator's inability to obtain natural gas.</p> <p>If no fuel oil or other liquid fuel was combusted during the year, maintain an on-site certification in accordance with N.J.A.C.7:27-1.39 stating that no fuel oil was combusted during this period. [N.J.A.C. 7:27-22.16(o)], [N.J.A.C. 7:27-19.25(c)], & [N.J.A.C. 7:27-19.25(d)]</p>	<p>Submit a report: Annually if fuel oil or other liquid fuel was combusted under the N.J.A.C.7:27-19.25 exemption. Submit the report by March 1 of each year for the preceding calendar year to the Regional Enforcement Office. The annual report shall include items 1) through 4) specified under the Recordkeeping Requirements section. The annual report shall also include any violations which occurred during the previous year. If no violations occurred during the year, the owner or operator shall provide certification that no violations occurred and that the records are maintained at the facility. [N.J.A.C. 7:27-19.19(g)(2)] &. [N.J.A.C. 7:27-19.25(d)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>Hours of Operation While Firing Fuel Oil <= 48 hours. Periodic testing on liquid fuel, maintenance, or operator training shall not exceed a combined total of 48 hours during any calendar year to be defined as a unit designed to burn gas 1 subcategory, as defined in MACT Subpart DDDDD, 40 CFR 63.7575.</p> <p>The owner or operator shall not fire fuel oil or other liquid fuel for 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 shown at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast. [N.J.A.C. 7:27-22.16(a)]</p>	None.	<p>Hours of Operation While Firing Fuel Oil: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the total number of hours fuel oil was combusted for periodic testing, maintenance, or operator training in a calendar year. Maintain readily accessible records onsite. [N.J.A.C. 7:27-22.16(o)]</p>	None.
9	VOC (Total) <= 0.8 lb/hr. Maximum emission rate based on vendor emission factor (0.010 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	NOx (Total) <= 2.41 lb/hr. Maximum emission rate based on vendor emission factor (0.030 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	CO <= 3.13 lb/hr. Maximum emission rate based on vendor emission factor (0.039 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO2 <= 1.61 lb/hr. Maximum emission rate based on AP-42 emission factor (0.020 lb/MMBTU) (S=0.02; 200 ppmvd). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 1.45 lb/hr. Maximum emission rate based on vendor emission factor (0.018 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	PM-10 (Total) <= 1.45 lb/hr. Maximum emission rate based on vendor emission factor (0.018 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-2.5 (Total) <= 1.45 lb/hr. Maximum emission rate based on 40 CFR 98 Subpart C Table C-2 emission factor (0.002 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Methane <= 0.53 lb/hr. Maximum emission rate based on 40 CFR 98 Subpart C Table C-2 emission factor for fuel gas (0.003 kg/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Beryllium Emissions <= 0.000241 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (3.00E-06 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Formaldehyde <= 0.0187 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (2.32E-04 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Nickel Emissions <= 0.000241 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (3.00E-06 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U7 Two Boilers, firing Natural Gas & #2 Fuel (Emergency Use Only), subject to MACT Subpart DDDDD and NSPS Subpart Dc

Operating Scenario: OS5 Murray - Burning Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity: No visible smoke except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 14.2 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.
3	Fuel type limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Natural Gas Usage <= 709.86 MMft ³ /yr based on 8,760 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The cubic feet for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
5	Maximum Gross Heat Input <= 84.6 MMBTU/hr (HHV) when firing natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	Flue Gas Recirculation Rate >= 25 % of flue gas at 18% excess air. The permittee shall utilize flue gas recirculation technology with a built-in control to continuously monitor the actuator position. [N.J.A.C. 7:27-22.16(a)]	Other: The permittee shall place the flue gas recirculation damper in a fixed position upon set-up, as designated by installer documentation and procedures. The damper's fixed position may be relocated based on stack test results. An alarm shall be triggered if the damper moves from the fixed position. Upon alarm trigger, the damper shall be manually placed back into the fixed position within 24 hours or the burner shall be shut off.[N.J.A.C. 7:27-22.16(o)].	Other: Keep record on-site of damper position. Alarm triggers and corrective actions shall be documented upon occurrence of each alarm event.[N.J.A.C. 7:27-22.16(o)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	VOC (Total) <= 50 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-16.8(b)1]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Compliance with the limit is based upon the average of three one-hour tests, each performed over a consecutive 60-minute period specified by the Department and performed in compliance with N.J.A.C. 7:27-16.22. [N.J.A.C. 7:27-16.23(a)2]	VOC (Total): Recordkeeping by stack test results once initially. [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)]
8	VOC (Total) <= 0.42 lb/hr. Maximum emission rate based on vendor emission factor (0.005 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. [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	NOx (Total) <= 0.05 lb/MMBTU. The owner or operator of an industrial/commercial/ institutional boiler or other indirect heat exchanger, with a maximum gross heat input rate of at least 25 million BTU per hour, whether or not it is located at a major NOx facility, but which is not located at a petroleum refinery, shall cause the boiler or other indirect heat exchanger to emit NOx at a rate no greater than the applicable maximum allowable NOx emission rate specified at N.J.A.C. 7:27-19 Table 9. [N.J.A.C. 7:27-19.7(i)1]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs and performed in compliance with N.J.A.C. 7:27-19.17. In accordance with N.J.A.C. 7:27-19.15(a)2, any NOx testing conducted pursuant to N.J.A.C. 7:27-19 shall be conducted concurrently with CO testing. The applicable NOx emission limits will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the CO limit in N.J.A.C. 7:27-16.8 or the permit limit for CO, whichever is more stringent, is also met. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. [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)]
10	NOx (Total) <= 0.01 lb/MMBTU. State of the Art (SOTA) emission limit (SOTA Manual for Boilers and Process Heaters, Table 1c). [N.J.A.C. 7:27-22.35(c)5ii]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. [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)]
11	NOx (Total) <= 0.85 lb/hr. Maximum emission rate based on SOTA emission limit (0.010 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. [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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	CO <= 100 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-16.8(b)2]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Compliance with the limit is based upon the average of three one-hour tests, each performed over a consecutive 60-minute period specified by the Department and performed in compliance with N.J.A.C. 7:27-16.22. [N.J.A.C. 7:27-16.23(a)2]	CO: Recordkeeping by stack test results once initially. [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)]
13	CO <= 0.039 lb/MMBTU. State of the Art (SOTA) emission limit (SOTA Manual for Boilers and Process Heaters, Table 1c). [N.J.A.C. 7:27-22.35]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. [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)]
14	CO <= 3.3 lb/hr. Maximum emission rate based on SOTA emission limit (0.039 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. [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)]
15	SO ₂ <= 0.05 lb/hr. Maximum emission rate based on AP-42 emission factor (0.60 lb/MMscf, 0.001 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	TSP <= 0.42 lb/hr. Maximum emission rate based on vendor emission factor (0.005 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-10 (Total) <= 0.42 lb/hr. Maximum emission rate based on vendor emission factor (0.005 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	PM-2.5 (Total) <= 0.42 lb/hr. Maximum emission rate based on vendor emission factor (0.005 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Methane <= 0.19 lb/hr. Maximum emission rate based on 40 CFR 98 Subpart C Table C-2 emission factor for natural gas (0.001 kg/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	Cobalt Emissions <= 0.00000681 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (8.05E-08 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Dimethylbenz(a)anthracene (7,12-) <= 0.0000013 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (1.53E08 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Formaldehyde <= 0.00608 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (7.18E-05 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Nickel Emissions <= 0.00017 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (2.01E-06 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U8 Vertical Fixed Roof Tank storing #2 Fuel Oil

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time 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	No person shall cause, suffer, allow, or permit the storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless an equivalent method of emission control approved by the Department is used. (Equivalent method of emission control = insulation). [N.J.A.C. 7:27-22.16(a)] & [N.J.A.C. 7:27-16.2(b)1ii]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The owner or operator shall maintain on-site, for each tank, for the time period specified at N.J.A.C. 7:27-16.22(a), records that specify 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 invoices / bills of lading / certificate of analysis per delivery showing the type of VOC stored. Vapor pressure of each VOC stored in each tank based on lab analysis or Material Safety Data sheet kept on site. Any person subject to any record keeping provision of N.J.A.C. 7:27-16 shall maintain the required records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or the EPA. [N.J.A.C. 7:27-16.22(a)] &. [N.J.A.C. 7:27-22.16(o)]	None.
6	Tank contents limited to #2 Fuel Oil. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Total Throughput <= 3.0256 MMgal/yr of #2 Fuel Oil for the #2 Fuel Oil Storage Tank (E601). [N.J.A.C. 7:27-22.16(e)]	Total Throughput: Monitored by review of fuel delivery records per delivery of the amount of fuel delivered. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery. [N.J.A.C. 7:27-22.16(o)]	None.
8	VOC (Total) <= 0.25 tons/yr. Annual emission limit for the #2 Fuel Oil Storage Tank (E601). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U9 East Fire Water Pump, 228 kW (GOP-003)

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	Particulate Emissions <= 1.2 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.
3	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [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	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [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.
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	Generator fuel limited to # 2 fuel oil. [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	<p>FOR OPERATING PERMITS ONLY</p> <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>1. During the performance of normal testing and maintenance procedures, including other fire protection equipment, as recommended in writing by the fire pump or fire protection system manufacturer and/or as required in writing by a Federal or State law or regulation,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p>	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information:</p> <p>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ol style="list-style-type: none"> The reason for its operation; The date(s) of operation and the start up and shut down time; The total operating time for testing or maintenance based on the generator's hour meter; and The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p>	None.

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Facility Specific Requirements**

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

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
10	Maximum Gross Heat Input <= 2 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
11	VOC (Total) <= 0.01 tons/yr. Annual emission limit based on the permitted hours per year of testing & maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	NOx (Total) <= 0.084 tons/yr. Annual emission limit based on the permitted hours per year of testing & maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	CO <= 0.015 tons/yr. Annual emission limit based on the permitted hours per year of testing & maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	TSP <= 0.002 tons/yr. Annual emission limit based on the permitted hours per year of testing & maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	PM-10 (Total) <= 0.002 tons/yr. Annual emission limit based on the permitted hours per year of testing & maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	The owner or operator of a fire pump engine with a displacement of less than 30 liters per cylinder must comply with the emissions standards in table 4 to NSPS IIII for the same model year and nameplate engine power as follows: NMHC + NO _x <= 4 g/kW-hr, CO <= 3.5 g/kW-hr, PM <= 0.2 g/kW-hr, [40 CFR 60.4205(c)]	None.	Other: The owner or operator must keep documentation demonstrating compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.
17	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions over the entire life of the engine. If the manufacturer's emission-related written instructions are not followed, the owner or operator must keep the results of the performance test(s) demonstrating compliance with the applicable emission limits. [40 CFR 60.4206].	None.
18	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII that use diesel fuel must use diesel fuel that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. [N.J.A.C. 7:27- 8.13(d)]	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- 8.13(d)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. If not complying with manufacturer's emission-related written instructions or emission-related settings, the owner or operator shall must keep a maintenance plan, records of conducted maintenance, and conduct a performance test(s), as prescribed at 40 CFR 60.4211(g). [40 CFR 60.4211].	None.
20	The owner or operator of a fire pump engine that was manufactured starting with or after the model year that applies to the engine power rating and a rated speed in table 3 to 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. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR 60.4211(g). [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Emergency stationary internal combustion engines may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
22	A new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 Subpart IIII, for compression ignition engines. No further requirements apply for such engines under 40 CFR 63. [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.

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

Emission Unit: U9 East Fire Water Pump, 228 kW (GOP-003)

Operating Scenario: OS1 2 MMBTU/hr (HHV) Fire Pump (228 kW) #2 fuel oil, 100 hrs/yr

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.2 lb/hr. Maximum emission rate based on emission factor (0.3 g/BHP-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 1.68 lb/hr. Maximum emission rate based on emission factor (2.5 g/BHP-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.3 lb/hr. Maximum emission rate based on emission factor (0.45 g/BHP-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.047 lb/hr. Maximum emission rate based on emission factor (0.07 g/BHP-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.047 lb/hr. Maximum emission rate based on emission factor (0.07 g/BHP-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U700 Temporary Boiler

Subject Item: CD700 Boiler SCR

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Temperature at Catalyst Bed ≥ 440 and Temperature at Catalyst Bed ≤ 750 degrees F. [N.J.A.C. 7:27-22.16(a)]	Temperature at Catalyst Bed: Monitored by temperature instrument continuously. An alarm or other operational warning system shall be installed and shall be designed to sound when temperatures outside the permitted operating range are detected at any time. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Temperature at Catalyst Bed: 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(o)]	None.
2	Flowrate ≥ 0.5 and Flowrate ≤ 5.2 lb/hr of reagent to the SCR. The reagent is a 92% volume concentration of reagent (ammonia) in solution. The SCR shall be operated at all times that the boiler is operating. Reagent shall be injected at all times that the boiler is operating, as per the manufacturer's specifications. [N.J.A.C. 7:27-22.16(a)]	Flowrate: Monitored by material feed/flow monitoring continuously. An alarm or other operational warning system shall be installed and shall be designed to sound when flowrates outside the permitted operating range are detected at any time. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Flowrate: 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(o)]	None.
3	Ammonia Slip ≤ 10 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-22.16(a)]	Ammonia Slip: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Ammonia Slip: Recordkeeping by stack test results once initially. [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)]

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U700 Temporary Boiler

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall not operate Emission Unit U700 after the temporary boiler (E700) has remained at a location for 180 consecutive days. [N.J.A.C. 7:27-22.16(a)]	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall record the following:</p> <ol style="list-style-type: none"> 1. The site address and location of the temporary boiler; 2. The date the temporary boiler arrived at the site; 3. The duration of operation including start date and end date; and 4. The date the temporary boiler left the site. <p>Maintain readily available records on site for review by the Department upon request. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Submit notification: As per the approved schedule. No later than 7 working days after bringing temporary boiler (E700) to the location, submit a notification to the NJDEP/Bureau of Stationary Sources Air Permits, 401 E State Street, Trenton, NJ 08625, (609-984-3696) and at the Southern Regional Field Office located at 2 Riverside Drive- Suite 201, Camden, NJ 08103, (856) 614-3601). The notification shall include the date the temporary boiler (E700) was brought to the location.</p> <p>No later than 7 working days after removing temporary boiler (E700) from the location, submit a notification to the NJDEP/Bureau of Stationary Sources Air Permits, 401 E State Street, Trenton, NJ 08625, (609-984-3696) and at the Southern Regional Field Office located at 2 Riverside Drive- Suite 201, Camden, NJ 08103, (856) 614-3601). The notification shall include the date the temporary boiler (E700) was removed from the location.</p> <p>Submit an operating permit application to remove Emission Unit U700 and corresponding permit conditions within 30 days of removal of temporary boiler (E700) from the location. [N.J.A.C. 7:27-22.16(o)]</p>
2	The temporary boiler (E700) may not operate at the same time as the Vogt (E602) and Murray (E603) boilers [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for VOC, NOx, and CO as specified in the compliance plan for OS1 and ammonia slip as specified in the compliance plan for CD700.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: The stack test must be conducted, for a new or modified source, within 180 days after initial startup of the new or modified source or within 60 days of approval of a timely submitted protocol, whichever comes later.</p> <p>Pursuant to N.J.A.C. 7:27-16.23(c) and 19.15(c), the initial stack test to demonstrate compliance with VOC/NOx RACT standards shall be conducted within 180 days from the date on which source operation commences operation. [N.J.A.C. 7:27-22.18] & [N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved modified operating permit BOP220002. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] & [N.J.A.C. 7:27-22.18(h)]</p>
4	<p>Opacity: No visible smoke except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]</p>	None.	None.	None.
5	<p>Particulate Emissions <= 15 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)]</p>	None.	None.	None.

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

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

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
8	Fuel type limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Natural Gas Usage \leq 413.38 MMft ³ /yr based on 4,320 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The cubic feet for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
10	Maximum Gross Heat Input \leq 99.9 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
11	Flue Gas Recirculation Rate \geq 5 % of flue gas at 15% excess air. [N.J.A.C. 7:27-22.16(a)]	Other: The permittee shall place the flue gas recirculation damper in a fixed position upon set-up, as designated by installer documentation and procedures. The damper's fixed position may be relocated based on stack test results.[N.J.A.C. 7:27-22.16(o)].	Other: Keep record on-site of damper position.[N.J.A.C. 7:27-22.16(o)].	None.
12	VOC (Total) \leq 1.08 tons/yr. Annual emission limit based on natural gas usage. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month 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. [N.J.A.C. 7:27-22.16(o)]	None.
13	NOx (Total) \leq 2.37 tons/yr. Annual emission limit based on natural gas usage. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
14	CO \leq 8.42 tons/yr. Annual emission limit based on natural gas usage. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	SO ₂ <= 0.12 tons/yr. Annual emission limit based on natural gas usage. [N.J.A.C. 7:27-22.16(a)]	SO ₂ : Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	SO ₂ : 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.
16	TSP <= 1.57 tons/yr. Annual emission limit based on natural gas usage. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
17	PM-10 (Total) <= 1.57 tons/yr. Annual emission limit based on natural gas usage. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
18	PM-2.5 (Total) <= 1.57 tons/yr. Annual emission limit based on natural gas usage. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (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.
19	HAPs (Total) <= 0.016 tons/yr (31.90942 lb/yr). Annual emission limit based on Cobalt Emissions, 7,12-Dimethylbenz(a)anthracene, Formaldehyde, and Nickel Emissions. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	HAPs (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.
20	Cobalt Emissions <= 0.0000174 tons/yr (0.0348 lb/yr). Annual emission limit of this HAP based on natural gas usage. [N.J.A.C. 7:27-22.16(a)]	Cobalt Emissions: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Cobalt Emissions: 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.
21	Dimethylbenz(a)anthracene (7,12-) <= 0.00000331 tons/yr (0.00662 lb/yr). Annual emission limit of this HAP based on natural gas usage. [N.J.A.C. 7:27-22.16(a)]	Dimethylbenz(a)anthracene (7,12-): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Dimethylbenz(a)anthracene (7,12-): 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.
22	Formaldehyde <= 0.0155 tons/yr (31 lb/yr). Annual emission limit of this HAP based on natural gas usage. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: 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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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	Nickel Emissions <= 0.000434 tons/yr (0.868 lb/yr). Annual emission limit of this HAP based on natural gas usage. [N.J.A.C. 7:27-22.16(a)]	Nickel Emissions: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Nickel Emissions: 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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	<p>Temporary boilers are not subject to NSPS Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.</p> <p>Temporary boiler means a steam generating unit that combusts natural gas or distillate oil with a potential SO₂ emissions rate no greater than 26 ng/J (0.060 lb/MMBtu), and the unit is designed to, and is capable of, being carried or moved from one location to another by means of, for example, wheels, skids, carrying handles, dollies, trailers, or platforms. A steam generating unit is not a temporary boiler if any one of the following conditions exists:</p> <p>(1) The equipment is attached to a foundation.</p> <p>(2) The steam generating unit or a replacement remains at a location for more than 180 consecutive days. Any temporary boiler that replaces a temporary boiler at a location and performs the same or similar function will be included in calculating the consecutive time period.</p> <p>(3) The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.</p> <p>(4) The equipment is moved from one location to another in an attempt to circumvent the residence time requirements of this definition. [40 CFR 60.40c(i)] & [40 CFR 60.41c]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall record the following:</p> <ol style="list-style-type: none"> 1. The site address and location of the temporary boiler; 2. The date the temporary boiler arrived at the site; 3. The duration of operation including start date and end date; and 4. The date the temporary boiler left the site. <p>Maintain readily available records on site for review by the Department upon request. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Submit notification: As per the approved schedule. No later than 7 working days after bringing temporary boiler (E700) to the location, submit a notification to the NJDEP/Bureau of Stationary Sources Air Permits, 401 E State Street, Trenton, NJ 08625, (609-984-3696) and at the Southern Regional Field Office located at 2 Riverside Drive- Suite 201, Camden, NJ 08103, (856) 614-3601). The notification shall include the date the temporary boiler (E700) was brought to the location.</p> <p>No later than 7 working days after removing temporary boiler (E700) from the location, submit a notification to the NJDEP/Bureau of Stationary Sources Air Permits, 401 E State Street, Trenton, NJ 08625, (609-984-3696) and at the Southern Regional Field Office located at 2 Riverside Drive- Suite 201, Camden, NJ 08103, (856) 614-3601). The notification shall include the date the temporary boiler (E700) was removed from the location. [N.J.A.C. 7:27-22.16(o)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	<p>Temporary boilers are not subject to MACT Subpart JJJJJJ.</p> <p>Temporary boiler means any gaseous or liquid fuel boiler that is designed to, and is capable of, being carried or moved from one location to another by means of, for example, wheels, skids, carrying handles, dollies, trailers, or platforms. A boiler is not a temporary boiler if any one of the following conditions exists:</p> <p>(1) The equipment is attached to a foundation.</p> <p>(2) The boiler or a replacement remains at a location within the facility and performs the same or similar function for more than 12 consecutive months, unless the regulatory agency approves an extension. Any temporary boiler that replaces a temporary boiler at a location within the facility and performs the same or similar function will be included in calculating the consecutive time period unless there is a gap in operation of 12 months or more.</p> <p>(3) The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.</p> <p>(4) The equipment is moved from one location to another within the facility but continues to perform the same or similar function and serve the same electricity, steam, and/or hot water system in an attempt to circumvent the residence time requirements of this definition. [40 CFR 63.11195(j)] & [40 CFR 63.11237]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall record the following:</p> <ol style="list-style-type: none"> 1. The site address and location of the temporary boiler; 2. The date the temporary boiler arrived at the site; 3. The duration of operation including start date and end date; and 4. The date the temporary boiler left the site. <p>Maintain readily available records on site for review by the Department upon request. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Submit notification: As per the approved schedule. No later than 7 working days after bringing temporary boiler (E700) to the location, submit a notification to the NJDEP/Bureau of Stationary Sources Air Permits, 401 E State Street, Trenton, NJ 08625, (609-984-3696) and at the Southern Regional Field Office located at 2 Riverside Drive- Suite 201, Camden, NJ 08103, (856) 614-3601). The notification shall include the date the temporary boiler (E700) was brought to the location.</p> <p>No later than 7 working days after removing temporary boiler (E700) from the location, submit a notification to the NJDEP/Bureau of Stationary Sources Air Permits, 401 E State Street, Trenton, NJ 08625, (609-984-3696) and at the Southern Regional Field Office located at 2 Riverside Drive- Suite 201, Camden, NJ 08103, (856) 614-3601). The notification shall include the date the temporary boiler (E700) was removed from the location. [N.J.A.C. 7:27-22.16(o)]</p>

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U700 Temporary Boiler

Operating Scenario: OS1 Temporary Boiler

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 50 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-16.8(b)1]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Compliance with the limit is based upon the average of three one-hour tests, each performed over a consecutive 60-minute period specified by the Department and performed in compliance with N.J.A.C. 7:27-16.22. [N.J.A.C. 7:27-16.23(a)2]	VOC (Total): Recordkeeping by stack test results once initially. [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)]
2	VOC (Total) <= 0.5 lb/hr. Maximum emission rate based on vendor emission factor (0.005 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. [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)]
3	NO _x (Total) <= 0.05 lb/MMBTU. The owner or operator of an industrial/commercial/ institutional boiler or other indirect heat exchanger, with a maximum gross heat input rate of at least 25 million BTU per hour, whether or not it is located at a major NO _x facility, but which is not located at a petroleum refinery, shall cause the boiler or other indirect heat exchanger to emit NO _x at a rate no greater than the applicable maximum allowable NO _x emission rate specified at N.J.A.C. 7:27-19 Table 9. [N.J.A.C. 7:27-19.7(i)1]	NO _x (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs and performed in compliance with N.J.A.C. 7:27-19.17. In accordance with N.J.A.C. 7:27-19.15(a)2, any NO _x testing conducted pursuant to N.J.A.C. 7:27-19 shall be conducted concurrently with CO testing. The applicable NO _x emission limits will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the CO limit in N.J.A.C. 7:27-16.8 or the permit limit for CO, whichever is more stringent, is also met. [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results once initially. [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)]
4	NO _x (Total) <= 1.1 lb/hr. Maximum emission rate based on vendor emission factor (0.0110 lb/MMBTU based on 9 ppmvd @ 3% O ₂). [N.J.A.C. 7:27-22.16(a)]	NO _x (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results once initially. [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)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	CO <= 100 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-16.8(b)2]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Compliance with the limit is based upon the average of three one-hour tests, each performed over a consecutive 60-minute period specified by the Department and performed in compliance with N.J.A.C. 7:27-16.22. [N.J.A.C. 7:27-16.23(a)2]	CO: Recordkeeping by stack test results once initially. [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)]
6	CO <= 0.039 lb/MMBTU. State of the Art (SOTA) emission limit (SOTA Manual for Boilers and Process Heaters, Table 1c). [N.J.A.C. 7:27-22.35(c)5ii]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. [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)]
7	CO <= 3.9 lb/hr. Maximum emission rate based on SOTA emission limit (0.039 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. [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)]
8	SO ₂ <= 0.06 lb/hr. Maximum emission rate based on AP-42 emission factor (0.001 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 0.73 lb/hr. Maximum emission rate based on AP-42 emission factor (0.007 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 0.73 lb/hr. Maximum emission rate based on AP-42 emission factor (0.007 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-2.5 (Total) <= 0.73 lb/hr. Maximum emission rate based on AP-42 emission factor (0.007 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Cobalt Emissions <= 0.00000804 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (8.05E-08 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Dimethylbenz(a)anthracene (7,12-) <= 0.00000153 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (1.53E08 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Formaldehyde <= 0.00718 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (7.18E-05 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Nickel Emissions <= 0.000201 lb/hr. Maximum emission rate of this HAP based on AP-42 emission factor (2.01E-06 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Polymer Additives Inc.

Facility ID (AIMS): 55707

Street 170 RT 130 SOUTH
Address: PO BOX 309
BRIDGEPORT, NJ 08014

Mailing 170 RT 130 SOUTH
Address: PO BOX 309
BRIDGEPORT, NJ 08014

County: Gloucester
Location Route 130
Description: Logan Township

State Plane Coordinates:	
X-Coordinate:	240,250
Y-Coordinate:	351,000
Units:	Feet
Datum:	NAD83
Source Org.:	Other/Unknown
Source Type:	Other/Unknown

Industry:	
Primary SIC:	2869
Secondary SIC:	
NAICS:	325199

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: Polymer Additives Inc.

Org. Type: Corporation

Name: Ryan McHugh

NJ EIN: 01122800002

Title: Environmental Engineer

Phone: (856) 467-8227 x

Mailing Address: 170 Rt. 130 South

Fax: () - x

P.O. Box 309

Other: () - x

Bridgeport, NJ 08014

Type:

Email: ryan.mchugh@valtris.com

Contact Type: General Contact

Organization: Polymer Additives Inc.

Org. Type: Corporation

Name: Ryan McHugh

NJ EIN: 01122800002

Title: Environmental Engineer

Phone: (856) 467-8227 x

Mailing Address: 170 Rt. 130 South

Fax: () - x

P.O. Box 309

Other: () - x

Bridgeport, NJ 08014

Type:

Email: ryan.mchugh@valtris.com

Contact Type: Operator

Organization:

Org. Type:

Name:

NJ EIN:

Title:

Phone: () - x

Mailing

Fax: () - x

Address:

Other: () - x

Type:

Email:

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Owner (Current Primary)

Organization:

Name: Polymer Additives Inc.

Title:

Phone: () - x

Fax: () - x

Other: () - x

Type:

Email:

Org. Type:

NJ EIN:

**Mailing
Address:**

Contact Type: Responsible Official

Organization: Polymer Additives Inc.

Name: J Robert Knighton

Title: Plant Manager

Phone: (856) 467-8216 x

Fax: (856) 467-8308 x

Other: () - x

Type:

Email: robert.knighton@valtris.com

Org. Type: Corporation

NJ EIN: 01122800002

**Mailing
Address:** 170 Rt. 130 South
P.O. Box 309
Bridgeport, NJ 08014

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)
FG1	Benzyl Chloride-flanges, valves, pumps, connectors, relief devices	Benzyl Chloride	7.550	0.000	0.000	0.000	0.000	0.000	0.000	7.20000000	0.000
FG3	Phosphate Esters-flanges, valves, pumps, connectors, relief devices	Phosphate Esters	2.050	0.000	0.000	0.000	0.000	0.000	0.000	0.35000000	0.000
FG4	Benzyl Phthalates-flanges, valves, pumps, connectors, relief devices	Benzyl Phthalates	24.100	0.000	0.000	0.000	1.000	0.000	0.000	22.40000000	0.050
FG5	Utilities-flanges, valves, pumps, connectors, relief devices	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG6	Wastewater Treatment Plant-flanges, valves, pumps, connectors, relief devices	Wastewater Treatment Plant	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.070
FG7	Boilers-flanges, valves, pumps, connectors, relief devices	Boilers	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
Total			33.700	0.000	0.000	0.000	1.000	0.000	0.000	29.95000000	0.120

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1												
IS2	02-STV-01 Fire Foam Tank (< 10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Benzyl Chloride	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS3	02-STV-04 Benzyl Chloride Storage Tank (< 10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Benzyl Chloride	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS4	02-PTV-03 Benzyl Chloride Shed Drumming Tank (< 10,000 gal. Storage Non-Applicable VOC)	Manufacturing and Materials Handling Equipment	Benzyl Chloride	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS5	02-STV-09 Triphenylphosphine Storage Tank(< 2000 gal. Storage of VOC; VP >=0.02 psia)	Storage Vessel	Benzyl Chloride	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS202	08-STV-12 HCl Storage Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS203	17-STV-05 Epoxy Resin Storage Tank (< 2000 gal. Storage of VOC; VP >=0.02 psia)	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS204	08-PTV-26 Therminol Storage Tank 1 (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS205	08-PTV-27 Therminol Storage Tank 2 (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS206	08-PTV-01b Catch Pot (< 50 lbs/hr)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS207	08-PCT-01 West Cooling Tower (< 50 lbs/hr additive)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS208	08-PCT-01a East Cooling Tower (< 50 lbs/hr additive)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS209	08-PTV-28 Rework Storage Tank 1 (S-148) (<10,000 gal. Storage Non-Applicable VOC)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS210	08-PTV-29 Rework Storage Tank 2 (S-141) (<10,000 gal. Storage Non-Applicable VOC)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS211	17-PTV-01 Rework Storage Tank 3 (DBPP) (<10,000 gal. Storage Non-Applicable VOC)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS212	08-PTV-08 Rework Storage Tank 4 (S-2148) (<10,000 gal. Storage Non-Applicable VOC)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS215	08-PTV-25 Process Surge Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS216	08-STV-18 Cooling Tower Tank 1 (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS217	08-STV-19 Cooling Tower Tank 2 (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS218	08-TTE-10 Steamer Overhead Tank Loading Spot (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS219	08-OTT-01 Brine Tank(<10,000 gal. Storage Non-Applicable VOC)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS220	08-TTE-02 Phosphate Esters Loading Dock 1 (Transfer operation of non- applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS221	08-TTE-03 Phosphate Esters Loading Dock 2 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS222	08-TTE-04 Phosphate Esters Loading Dock 3 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS223	08-TTE-05 Phosphate Esters Loading Dock 4 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS224	08-TTE-06 Phosphate Esters Loading Dock 5 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS225	08-TTE-07 Phosphate Esters Loading Dock 6 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS226	08-TTE-09 Phosphate Esters Drum Loading (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS227	2-Ethylhexanol Storage Tank	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS228	Isodecanol Storage Tank	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS229	NaOH Storage Tank	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS230	EPAL Storage Tank	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS231	S-148 Product Storage Tank	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS232	S-141 Product Storage Tank	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS233	S-2148 Product Storage Tank	Storage Vessel	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS234	Day Tank 1	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS235	Day Tank 2	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS236	Day Tank 3	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS237	Day Tank 4	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS238	Day Tank 5	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS239	Day Tank 6	Manufacturing and Materials Handling Equipment	Phosphate Esters	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS302	03-STV-12 Peracetic Acid Storage Tank (< 2000 gal. Storage of VOC; VP >=0.02 psia)	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS303	03-PCT-01 Cooling Tower (< 50 lbs/hr additive)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS304	03-PRV-11e Base Recovery Unit (< 50 lbs/hr additive)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS305	03-STV-14 BDEA Hazardous Waste Storage Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS306	03-STV-19 Cooling Tower Chemical Tank 1 (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS307	03-STV-20 Cooling Tower Chemical Tank 2 (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS308	03-STV-18 Fire Foam Tank 1 (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS309	03-STV-21 Fire Foam Tank 2 (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS310	03-TTE-04 Benzyl Phthalates Loading Dock 1 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS311	03-TTE-05 Benzyl Phthalates Loading Dock 2 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS312	03-TTE-06 Benzyl Phthalates Loading Dock 3 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS313	03-TTE-07 Benzyl Phthalates Loading Dock 4 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS314	27-TTE-01 Benzyl Phthalates Loading Dock 5 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS315	27-TTE-02 Benzyl Phthalates Loading Dock 6 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS316	27-TTE-03 Benzyl Phthalates Loading Dock 7 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS317	30-TTE-01 Benzyl Phthalates Loading Dock 8 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS318	30-TTE-02 Benzyl Phthalates Loading Dock 9 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS319	30-TTE-03 Benzyl Phthalates Loading Dock 10 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS320	30-TTE-04 Benzyl Phthalates Loading Dock 11 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS321	30-TTE-05 Benzyl Phthalates Loading Dock 12 (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS322	03-TTE-02 BDEA Hazardous Waste Loading Dock (Transfer operation of non-applicable VOCs with no control required)	Manufacturing and Materials Handling Equipment	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS324	03-STV-22 Plasticizer Drum Shed Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS325	Alcohol Storage Tank	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS327	Caustic NaOH Storage Tank	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS328	T113 Finished Goods Tank	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS329	T114 Finished Goods Tank	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS330	T115 Finished Goods Tank	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS331	T116 Finished Goods Tank	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS332	S278 Storage Tank	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS333	S261 Storage Tank	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS334	M108A	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS335	M108B	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS336	M108C	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS337	S-160 Storage Tank	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS338	S-160 Storage Tank	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS339	Blend Area Storage Tank 101	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS340	Blend Area Storage Tank 104	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS341	Blend Area Storage Tank 107	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS342	Blend Area Storage Tank 110	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS343	Blend Area Storage Tank 113	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS344	Blend Area Storage Tank 116	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS345	Blend Area Storage Tank T200	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS346	Blend Area Storage Tank T201	Storage Vessel	Benzyl Phthalates	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS347	Tank Truck storing S-261A or S-278 Steamer Overhead material (<10,000 gallons storing non-applicable VOC)	Storage Vessel	Benzyl Phthalate									

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS348	Tank Truck storing S-261A or S-278 Steamer Overhead material (<10,000 gallons storing non-applicable VOC)	Storage Vessel	Benzyl Phthalate									
IS349	Tank Truck storing S-261A or S-278 Steamer Overhead material (<10,000 gallons storing non-applicable VOC)	Storage Vessel	Benzyl Phthalate									
IS350	Tank Truck storing S-261A or S-278 Steamer Overhead material (<10,000 gallons storing non-applicable VOC)	Storage Vessel	Benzyl Phthalate									
IS351	Tank Truck storing S-261A or S-278 Steamer Overhead material (<10,000 gallons storing non-applicable VOC)	Storage Vessel	Benzyl Phthalate									

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS352	Tank Truck storing S-261A or S-278 Steamer Overhead material (<10000 gallon storage non applicable VOC)	Storage Vessel	Benzyl Phthalate									
IS402	72-STV-01 Polymer Feed Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS403	72-STV-02 Sodium Hypochlorite Storage Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS404	72-STV-03 Pump Fuel Oil Tank (< 2000 gal. Storage of VOC; VP >=0.02 psia)	Storage Vessel	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS405	72-STV-04 Unleaded Gasoline Tank (< 2000 gal. Storage of VOC; VP >=0.02 psia)	Storage Vessel	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS406	72-STV-05 Diesel Fuel Tank (< 2000 gal. Storage of VOC; VP >=0.02 psia)	Storage Vessel	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS407	72-STV-11 Diesel Tank (PE1) (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS408	72-STV-12 Diesel Tank (PE2) (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS409	72-STV-13 Diesel Tank (Comp Shed) (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS410	72-STV-14 Diesel Tank (Fire Water Pump) (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS411	72-STV-15 WWTP Diesel Generator Tank (< 2000 gal. Storage of VOC; VP >=0.02 psia)	Storage Vessel	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS412	72-PRV-01 Aerator (<3500 ppbw for total concentration of VOC in water or <100 ppbw of any TXS)	Other Equipment	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS413	72-OTT-01 Clarifier (<3500 ppbw for total concentration of VOC in water or <100 ppbw of any TXS)	Other Equipment	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS414	72-PTV-01 Filter 1 (<3500 ppbw for total concentration of VOC in water or <100 ppbw of any TXS)	Other Equipment	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS415	72-PTV-02 Filter 2 (<3500 ppbw for total concentration of VOC in water or <100 ppbw of any TXS)	Other Equipment	Utilities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS502	23-STV-03 East HCl Storage Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Wastewater Treatment Plant	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS503	23-STV-16 West HCl Storage Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Wastewater Treatment Plant	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS504	23-STV-04 Phosphoric Acid Storage Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Wastewater Treatment Plant	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS505	23-STV-17 Aqua Ammonia Storage Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Wastewater Treatment Plant	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS506	23-STV-12 NaOH Storage Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Wastewater Treatment Plant	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS508	23-STV-13 Polymer Storage Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Wastewater Treatment Plant	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS509	23-STV-18 Antifoam Storage Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Wastewater Treatment Plant	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS512	23-STV-02 Sludge Disposal Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Wastewater Treatment Plant	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS513	Secondary Sludge Storage Tank	Storage Vessel	Wastewater Treatment Plant	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS602	50-STV-02 Chelant Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Boilers	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO _x	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS603	50-STV-03 Neutralizer Storage Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Boilers	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS604	50-OTT-01 Brine Storage Tank (<10,000 gal. Storage Non-Applicable VOC)	Storage Vessel	Boilers	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS605	Portable Temporary Equipment	Other Equipment	Plant Wide	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS606	Parts Washer (Using 2 gal or more of solvents containing > 5% VOC content by weight)	Other Equipment	Maintenance Building	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
Total				0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

**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
E1	30-STV-07	Toluene Storage Tank	Storage Vessel	NJ00012	4/22/1999	No		
E2	02-PTV-02	Toluene Recycle Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E3	02-PRV01abce	Chlorinator Off-Gas/Toluene Recovery Decanter	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E4	02-PRV-01d	Toluene Stripper	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E5	02-PRV-05	South Benzyl Refining Column	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E6	02-PRV-06	North Benzyl Refining Column	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E7	02-PTV-05	North Benzal Chloride Residue Tank	Storage Vessel	NJ00012	4/22/1999	No		
E8	02-STV-05	North Benzyl Chloride Storage Tank	Storage Vessel	NJ00012	4/22/1999	No		
E9	02-STV-02	West Benzyl Chloride Storage Tank	Storage Vessel	NJ00012	4/22/1999	No		
E10	02-STV-03	East Benzyl Chloride Storage Tank	Storage Vessel	NJ00012	4/22/1999	No		
E11	72-STA-01	2 MMBTU/hr (HHV) Fire Pump (228 kW)	Emergency Fire Pump		12/1/2014			

**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
E14	05-STV-03	HCl Storage Tank 03	Storage Vessel	NJ00012	4/22/1999	No		
E15	05-STV-04	HCl Storage Tank 04	Storage Vessel	NJ00012	4/22/1999	No		
E16	05-STV-05	HCl Storage Tank 05	Storage Vessel	NJ00012	4/22/1999	No		
E17	02-TTE-04	Loading Dock (Rack)	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E18	02-TTE-05	Loading Dock (Rack)	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E19	05-TTE-01	Loading Dock (Rack)	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E20	05-TTE-02	Loading Dock (Rack)	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E21	02-TTE-01	BZCL, BZPH, BZCHO Drumming (Rack)	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E22	02-STV-08	Benzaldehyde Storage Tank	Storage Vessel	NJ00012	4/22/1999	No		
E23	02-PTV-06	South Benzal Chloride Residue Tank	Storage Vessel		10/15/2012	No		
E201	17-STV-06	Butanal Storage Tank	Storage Vessel	NJ00012	4/22/1999	No		
E202	08-STV-04	Phenol Storage Tank	Storage Vessel	NJ00012	4/22/1999	No		
E203	08-STV-20	Phosphorous Oxychloride Storage Tank	Storage Vessel	NJ00012	4/22/1999	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
E208	08-PTV-24	Alcohol Weigh Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E210	08-PRV-01a	HCl Absorber & Vacuum System	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E211	08-PTV-23	Caustic Mix Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E212	08-PRV-02	Reactor II/III	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E213	08-PTV-01	HCl Seal Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E214	08-STV-11	Phenate Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E215	17-PTV-02	Phenate Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E216	08-PTV-22	Phenate Weigh Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E217	08-PRV-05	Mix Pot 1	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	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
E218	08-PRV-07	Mix Pot 2	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E219	08-PRV-09	Mix Pot 3	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E220	08-PRV-11	Mix Pot 4	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E221	08-PRV-13	Mix Pot 5	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E222	08-PRV-15	Mix Pot 6	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E223	08-PRV-17	Mix Pot 7	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E224	08-PRV-19	Mix Pot 8	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E225	08-PRV-21	Mix Pot 9	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E226	08-PRV-04	Decanter 1	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	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
E227	08-PRV-06	Decanter 2	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E228	08-PRV-08	Decanter 3	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E229	08-PRV-10	Decanter 4	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E230	08-PRV-12	Decanter 5	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E231	08-PRV-14	Decanter 6	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E232	08-PRV-16	Decanter 7	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E233	08-PRV-18	Decanter 8	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E234	08-PRV-20	Decanter 9	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E235	08-PRV-03	Steamer Column	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	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
E236	08-PTV-05	Steamer Overheads Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E238	08-PRV-03a	DIBP Batch Reactor	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E239	08-PTV-09	Washer Feed Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E240	08-PTV-04	Steamer Feed Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E242	08-PTV-06	Caustic Settling Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E243	08-PRV-22	Oil/Water Separator 1	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E244	08-PRV-23	Oil/Water Separator 2	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E245	08-PTV-03	Salt Settling Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E301	30-STV-06	T106 Butanol Storage Tank	Storage Vessel	NJ00012	4/22/1999	No		
E302	03-STV-02	Triethylamine Storage Tank	Storage Vessel	NJ00012	4/22/1999	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
E304	03-STV-16	Alcohol/Butanol Storage Tank	Storage Vessel	NJ00012	4/22/1999	No		
E306	01-STV-07	Phthalic Anhydride Storage Tank	Storage Vessel	NJ00012	4/22/1999	No		
E307	03-PRV-09e	Salt Dissolver	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E308	03-PTV-13	Mix Pot 1	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E309	03-PTV-14	Mix Pot 2	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E310	03-PTV-15	Mix Pot 3	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E311	03-PTV-01	CR Decanter 1	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E312	03-PTV-02	CR Decanter 2	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E313	03-PTV-03	CR Decanter 3	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	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
E314	03-PTV-04	CR Decanter 4	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E315	03-PRV-08	S-160 Steamer	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E316	03-PTV-08	STEAMER OVERHEADS TANK	Other Equipment	NJ00012	2/22/1999	No		
E317	03-PRV-04	Decolorizer	Manufacturing and Materials Handling Equipment	NJ00012	11/30/2016	No		
E318	03-PTV-05	Crude Hold Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E319	03-PRV-07	Surge Tank & Seal Pots (Hotwell System)	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E321	03-PTV-20	Refining Wash Decanter 1	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E322	03-PTV-21	Refining Wash Decanter 2	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E323	03-PRV-08a	S-160 Dryer	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	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
E324	03-PTV-07	Dryer Surge Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E325	03-STV-17	Pre Coat Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E326	03-PRV-06	Settling Basin	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E327	03-PTV-09	Catch Tank 1	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E328	03-PTV-10	Catch Tank 2	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E329	03-PRV-05	Square Sump	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E330	03-PTV-22	Acid Wash Storage Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E331	03-STV-06	T111 Shift Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E332	03-STV-07	T112 Shift Tank	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	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
E352	27-PTV-01	Blend Tank 131	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E353	27-PTV-02	Blend Tank 132	Manufacturing and Materials Handling Equipment	NJ00012	4/22/1999	No		
E354	TA351	SOH Storage Tank	Storage Vessel		12/1/2018	No		
E355	TA352	SOH Storage Tank	Storage Vessel		12/1/2019	No		
E363		SOH Tank Truck	Storage Vessel		7/1/2017	No		
E364		SOH Tank Truck	Storage Vessel		7/1/2017	No		
E365	TA 353	SOH Storage Tank	Storage Vessel		12/1/2020			
E366		TEA Tank Truck	Storage Vessel		10/7/2020			
E367		TEA Tank Truck	Storage Vessel		10/7/2020			
E368		TEA Tank Truck	Storage Vessel		10/7/2020			
E369		TEA Tank Truck	Storage Vessel		10/7/2020			
E370	TA 354	SOH Storage Tank	Storage Vessel		12/1/2021	No		
E402	72-STA-02	Generator PE 1	Emergency Generator	NJ00012	4/22/1999	No		
E403	72-STA-03	Generator PE 2	Emergency Generator	NJ00012	4/22/1999	No		
E404	72-STA-04	Generator Compressor Shed	Emergency Generator	NJ00012	4/22/1999	No		
E405	72-STA-05	West Water Diesel Pump	Stationary Reciprocating Engine	NJ00012	4/22/1999	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
E406	72-STA-06	WWTP Water Diesel Generator	Stationary Reciprocating Engine	NJ00012	4/22/1999	No		
E501	23-STV-15	Phenol Equalization Tank	Other Equipment	NJ00012	4/22/1999	No		
E502	23-OTT-13	Stormwater Basin	Other Equipment	NJ00012	4/22/1999	No		
E503	23-OTT-12	Stormwater Lagoon 1	Other Equipment	NJ00012	4/22/1999	No		
E505	23-PRV-01	Neutralizing Tank 1	Other Equipment	NJ00012	4/22/1999	No		
E506	23-PRV-02	Neutralizing Tank 2	Other Equipment	NJ00012	4/22/1999	No		
E507	23-PRV-03	Neutralizing Tank 3	Other Equipment	NJ00012	4/22/1999	No		
E508	23-OTT-01	Primary Clarifier 1	Other Equipment	NJ00012	4/22/1999	No		
E509	23-OTT-02	Primary Clarifier 2	Other Equipment	NJ00012	4/22/1999	No		
E511	23-OTT-03	Aeration Basin 1	Other Equipment	NJ00012	4/22/1999	No		
E512	23-OTT-04	Aeration Basin 2	Other Equipment	NJ00012	4/22/1999	No		
E513	23-OTT-05	Secondary Clarifier 1	Other Equipment	NJ00012	4/22/1999	No		
E514	23-OTT-06	Secondary Clarifier 2	Other Equipment	NJ00012	4/22/1999	No		
E515	23-STV-14	Equalization Surge Tank	Other Equipment	NJ00012	4/22/1999	No		
E516	23-OTT-11	Secondary Sludge Thickener	Other Equipment	NJ00012	4/22/1999	No		
E517	23-OTT-15	Rotary Drum Thickener	Other Equipment	NJ00012	4/22/1999	No		
E518	23-OTT-14	Primary Sludge Storage Tank	Other Equipment	NJ00012	4/22/1999	No		
E519	23-OTT-16	AFC Tank	Other Equipment	NJ00012	4/22/1999	No		
E522	23-TTE-01	Sludge Loading Spot (Rack)	Other Equipment	NJ00012	4/22/1999	No		

BOP220001

**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
E527	23-OTT-20	Filter Reject Tank	Other Equipment	NJ00012		No		
E528	23-OTT-17	Filter Feed Tank	Other Equipment	NJ00012		No		
E529	ET Tank	1.5 Million Gallon Equalization Tank	Manufacturing and Materials Handling Equipment		12/1/2020	No		
E601	50-STV-01	#2 Fuel Oil Storage Tank	Storage Vessel	NJ00012	4/22/1999	No		
E602	50-STA-01	Vogt Boiler	Boiler	NJ00012	4/22/1999	No	10/1/2022	
E603	50-STA-02	Murray Boiler	Boiler	NJ00012	4/22/1999	No	10/1/2022	
E604	WWTP Manway	WWTP Conveyance System	Other Equipment	NA	4/22/1999	No		
E700	Temp Boiler	Temp Boiler	Boiler		4/1/2022	No		

55707 POLYMER ADDITIVES INC BOP220001 E3 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Decanter"/>
Capacity:	<input type="text" value="5.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E1 (Storage Vessel)
Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

720,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

20.00

Length (ft):

Width (ft):

Diameter (ft):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

200.00

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):

2.00

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

Yes

55707 POLYMER ADDITIVES INC BOP220001 E1 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes

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:

55707 POLYMER ADDITIVES INC BOP220001 E4 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text"/>
Capacity:	<input type="text" value="3.30E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E5 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text"/>
Capacity:	<input type="text" value="2.75E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E6 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text"/>
Capacity:	<input type="text" value="2.75E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E7 (Storage Vessel)
Print Date: 5/9/2022

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:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(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:

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?

Does the storage vessel

55707 POLYMER ADDITIVES INC BOP220001 E7 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

VT-10,000 gallon Glass Lined Glastor Tank

55707 POLYMER ADDITIVES INC BOP220001 E2 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Vertical Fixed Roof Process Tank"/>
Capacity:	<input type="text" value="2.20E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E8 (Storage Vessel)
Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

50,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Gray (Medium)

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

20.50

Length (ft):

Width (ft):

Diameter (ft):

20.50

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

200.00

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):

2.25

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

No

55707 POLYMER ADDITIVES INC BOP220001 E8 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

55707 POLYMER ADDITIVES INC BOP220001 E9 (Storage Vessel)
Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

25,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Gray (Medium)

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

17.00

Length (ft):

Width (ft):

Diameter (ft):

16.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

200.00

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

2.08

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

55707 POLYMER ADDITIVES INC BOP220001 E9 (Storage Vessel)

Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes ▼

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:

55707 POLYMER ADDITIVES INC BOP220001 E10 (Storage Vessel)

Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

25,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Gray (Medium)

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

17.00

Length (ft):

Width (ft):

Diameter (ft):

16.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

200.00

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):

2.08

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

No

55707 POLYMER ADDITIVES INC BOP220001 E10 (Storage Vessel)

Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes ▼

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:

55707 POLYMER ADDITIVES INC BOP220001 E11 (Emergency Fire Pump)
Print Date: 5/9/2022

Make:	<input type="text" value="John Deere"/>		
Manufacturer:	<input type="text" value="Clarke (2014)"/>		
Model:	<input type="text" value="JU6H-UFADX8 (2014) Model Year"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="2.00"/>		
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="radio"/> Yes <input type="radio"/> No
Comments:	<input type="text" value="228 kW"/> <input type="text" value="305 HP"/> <input type="text" value="Displacement per cylinder: 1.1 L"/>		

55707 POLYMER ADDITIVES INC BOP220001 E14 (Storage Vessel)

Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

29,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

24.00

Length (ft):

Width (ft):

Diameter (ft):

25.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

100.00

Units:

gal/min

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

Roof

Roof Type:

Domed vertical fixed roof tank

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

4.25

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

Yes

55707 POLYMER ADDITIVES INC BOP220001 E14 (Storage Vessel)

Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes ▼

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:

55707 POLYMER ADDITIVES INC BOP220001 E15 (Storage Vessel)

Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

29,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

24.00

Length (ft):

Width (ft):

Diameter (ft):

25.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

100.00

Units:

gal/min

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

Roof

Roof Type:

Domed vertical fixed roof tank

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

4.25

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

Yes

55707 POLYMER ADDITIVES INC BOP220001 E15 (Storage Vessel)

Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes ▼

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:

55707 POLYMER ADDITIVES INC BOP220001 E16 (Storage Vessel)

Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

29,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (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):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Domed 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?

Does the storage vessel

55707 POLYMER ADDITIVES INC BOP220001 E16 (Storage Vessel)

Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

55707 POLYMER ADDITIVES INC BOP220001 E17 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="loading dock - railcar"/>
Capacity:	<input type="text" value="2.50E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="GALLONS/MINUTE"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E18 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="loading dock - tank trucks"/>
Capacity:	<input type="text" value="2.50E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="GALLONS/MINUTE"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E19 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="loading dock - railcars"/>
Capacity:	<input type="text" value="2.50E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="GALLONS/MINUTE"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E20 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="loading dock - tank trucks"/>
Capacity:	<input type="text" value="2.50E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="GALLONS/MINUTE"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E21 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="load station - 55 gallon drums"/>
Capacity:	<input type="text" value="5.50E+01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="GALLONS/MINUTE"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E22 (Storage Vessel)

Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

12,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

20.00

Length (ft):

Width (ft):

Diameter (ft):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

2.00

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):

1.75

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

No

55707 POLYMER ADDITIVES INC BOP220001 E22 (Storage Vessel)

Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes ▼

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:

55707 POLYMER ADDITIVES INC BOP220001 E23 (Storage Vessel)

Print Date: 5/9/2022

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:

Above Ground ▼

Is the Shell of the Equipment

▼

Exposed to Sunlight?

Shell Color:

▼

Description (if other):

Shell Condition:

▼

Paint Condition:

▼

Shell Construction:

▼

Is the Shell Insulated?

▼

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(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:

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?

▼

Does the storage vessel

55707 POLYMER ADDITIVES INC BOP220001 E23 (Storage Vessel)

Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

[VT-10,000 gallon Glass Lined Glastor Tank](#)

55707 POLYMER ADDITIVES INC BOP220001 E201 (Storage Vessel)
Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

25,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

41.00

Length (ft):

Width (ft):

Diameter (ft):

11.00

Other Dimension

Description:

Value:

Units:

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):

11.00

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

55707 POLYMER ADDITIVES INC BOP220001 E201 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes

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:

55707 POLYMER ADDITIVES INC BOP220001 E202 (Storage Vessel)

Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

50,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Diffuse Aluminum

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

Yes

Type of Insulation:

calcium silicate

Insulation Thickness (in):

1.5

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

22.00

Length (ft):

Width (ft):

Diameter (ft):

20.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

100.00

Units:

gal/min

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

Roof

Roof Type:

Domed vertical fixed roof tank

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

2.25

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

55707 POLYMER ADDITIVES INC BOP220001 E202 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes

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:

55707 POLYMER ADDITIVES INC BOP220001 E203 (Storage Vessel)
Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

12,500

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

No

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

20.00

Length (ft):

Width (ft):

Diameter (ft):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

60.00

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):

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?

Does the storage vessel

55707 POLYMER ADDITIVES INC BOP220001 E203 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes

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:

55707 POLYMER ADDITIVES INC BOP220001 E208 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="alcohol weigh tank"/>
Capacity:	<input type="text" value="1.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E210 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text"/>
Capacity:	<input type="text" value="1.50E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E211 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="caustic mix tank"/>
Capacity:	<input type="text" value="3.50E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E212 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="reactor"/>
Capacity:	<input type="text" value="8.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E213 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text"/>
Capacity:	<input type="text" value="4.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E214 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="hold tank"/>
Capacity:	<input type="text" value="6.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E215 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="hold tank"/>
Capacity:	<input type="text" value="1.15E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E216 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="weigh tank"/>
Capacity:	<input type="text" value="2.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E217 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="mix pot"/>
Capacity:	<input type="text" value="6.00E+01"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E218 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="mix pot"/>
Capacity:	<input type="text" value="6.00E+01"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E219 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="mix pot"/>
Capacity:	<input type="text" value="6.00E+01"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E220 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="mix pot"/>
Capacity:	<input type="text" value="6.00E+01"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E221 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="mix pot"/>
Capacity:	<input type="text" value="6.00E+01"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E222 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="mix pot"/>
Capacity:	<input type="text" value="6.00E+01"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E223 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="mix pot"/>
Capacity:	<input type="text" value="1.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E224 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="mix pot"/>
Capacity:	<input type="text" value="1.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E225 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="mix pot"/>
Capacity:	<input type="text" value="1.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E226 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="3.30E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E227 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="3.30E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E228 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="3.30E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E229 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="3.30E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E230 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="3.30E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E231 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="3.30E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E232 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="8.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E233 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="8.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E234 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="8.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E235 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="steamer column"/>
Capacity:	<input type="text" value="1.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E236 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="hold tank"/>
Capacity:	<input type="text" value="5.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E238 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="batch reactor"/>
Capacity:	<input type="text" value="5.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E239 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="feed tank"/>
Capacity:	<input type="text" value="5.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E240 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="feed tank"/>
Capacity:	<input type="text" value="3.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E242 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="settling tank"/>
Capacity:	<input type="text" value="7.50E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E243 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="oi/water separator"/>
Capacity:	<input type="text" value="3.50E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E244 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="coalescer"/>
Capacity:	<input type="text" value="7.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E245 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="settling tank"/>
Capacity:	<input type="text" value="5.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E301 (Storage Vessel)
Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

1,400,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

24.00

Length (ft):

Width (ft):

Diameter (ft):

100.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

200.00

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):

2.00

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

55707 POLYMER ADDITIVES INC BOP220001 E301 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes

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:

55707 POLYMER ADDITIVES INC BOP220001 E302 (Storage Vessel)
Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

20,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

17.00

Length (ft):

Width (ft):

Diameter (ft):

14.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

200.00

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):

1.46

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

55707 POLYMER ADDITIVES INC BOP220001 E302 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes

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:

55707 POLYMER ADDITIVES INC BOP220001 E304 (Storage Vessel)
Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

25,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

17.00

Length (ft):

Width (ft):

Diameter (ft):

16.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

200.00

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):

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

55707 POLYMER ADDITIVES INC BOP220001 E304 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes

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?

Comments:

55707 POLYMER ADDITIVES INC BOP220001 E306 (Storage Vessel)
Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

88,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Gray (Medium)

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

Yes

Type of Insulation:

calcium silicate

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

28.00

Length (ft):

Width (ft):

Diameter (ft):

25.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

200.00

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):

1.25

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

Yes

55707 POLYMER ADDITIVES INC BOP220001 E306 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes

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:

55707 POLYMER ADDITIVES INC BOP220001 E307 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="salt dissolver"/>
Capacity:	<input type="text" value="1.50E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E308 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="mix pot"/>
Capacity:	<input type="text" value="6.00E+01"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E309 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="mix pot"/>
Capacity:	<input type="text" value="6.00E+01"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E310 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="mix pot"/>
Capacity:	<input type="text" value="6.00E+01"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E311 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="8.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E312 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="8.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E313 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="8.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E314 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decanter"/>
Capacity:	<input type="text" value="8.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E315 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="steamer"/>
Capacity:	<input type="text" value="1.01E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E317 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="decolorizer"/>
Capacity:	<input type="text" value="1.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E318 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="hold tank"/>
Capacity:	<input type="text" value="1.08E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E319 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="surge tank"/>
Capacity:	<input type="text" value="1.35E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E321 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="refining decanter"/>
Capacity:	<input type="text" value="1.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E322 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="refining decanter"/>
Capacity:	<input type="text" value="3.20E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E323 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text"/>
Capacity:	<input type="text" value="1.07E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E324 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="surge tank"/>
Capacity:	<input type="text" value="5.00E+02"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E325 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text"/>
Capacity:	<input type="text" value="7.00E+01"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E326 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="settling basin"/>
Capacity:	<input type="text" value="5.25E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E327 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="catch tank"/>
Capacity:	<input type="text" value="1.30E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E328 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="catch tank"/>
Capacity:	<input type="text" value="1.30E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E329 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="square sump"/>
Capacity:	<input type="text" value="1.50E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E330 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="hold tank"/>
Capacity:	<input type="text" value="1.00E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E331 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="hold tank"/>
Capacity:	<input type="text" value="1.00E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E332 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="hold tank"/>
Capacity:	<input type="text" value="1.00E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E352 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="blend tank"/>
Capacity:	<input type="text" value="5.50E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E353 (Manufacturing and Materials Handling Equipment)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="blend tank"/>
Capacity:	<input type="text" value="5.50E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

55707 POLYMER ADDITIVES INC BOP220001 E354 (Storage Vessel)

Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

15,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Specular Aluminum

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (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:

Submerged

Description (if other):

Maximum Design Fill Rate:

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?

No

55707 POLYMER ADDITIVES INC BOP220001 E354 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

55707 POLYMER ADDITIVES INC BOP220001 E355 (Storage Vessel)

Print Date: 5/9/2022

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:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Specular Aluminum

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

16.00

Length (ft):

Width (ft):

Diameter (ft):

9.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

55707 POLYMER ADDITIVES INC BOP220001 E355 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

55707 POLYMER ADDITIVES INC BOP220001 E363 (Storage Vessel)

Print Date: 5/9/2022

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:

Above Ground

Is the Shell of the Equipment

No

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

Yes

Type of Insulation:

Insulation Thickness (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):

33.00

Width (ft):

Diameter (ft):

6.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof Type:

Roof Height (From Roof
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

55707 POLYMER ADDITIVES INC BOP220001 E363 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

55707 POLYMER ADDITIVES INC BOP220001 E364 (Storage Vessel)
Print Date: 5/9/2022

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:

Above Ground

Is the Shell of the Equipment

No

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Good

Shell Construction:

Bolted/Riveted

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (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):

33.00

Width (ft):

Diameter (ft):

6.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof Type:

Roof Height (From Roof
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

55707 POLYMER ADDITIVES INC BOP220001 E364 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

55707 POLYMER ADDITIVES INC BOP220001 E365 (Storage Vessel)
Print Date: 5/9/2022

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

Storage Vessel Type:

Design Capacity:

15,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(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

55707 POLYMER ADDITIVES INC BOP220001 E365 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

55707 POLYMER ADDITIVES INC BOP220001 E402 (Emergency Generator)
Print Date: 5/9/2022

Make:	<input type="text" value="Diesel"/>		
Manufacturer:	<input type="text" value="Detroit Diesel"/>		
Model:	<input type="text" value="350D"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="3.30"/>		
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	<input type="text" value="540 BHP"/>		

55707 POLYMER ADDITIVES INC BOP220001 E403 (Emergency Generator)
Print Date: 5/9/2022

Make:	Diesel	
Manufacturer:	Detroit Diesel	
Model:	350D	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	3.30	
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	540 BHP	

55707 POLYMER ADDITIVES INC BOP220001 E404 (Emergency Generator)
Print Date: 5/9/2022

Make:	<input type="text" value="Diesel"/>		
Manufacturer:	<input type="text" value="Detroit Diesel"/>		
Model:	<input type="text" value="350D"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="3.30"/>		
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	<input type="text" value="540 BHP"/>		

55707 POLYMER ADDITIVES INC BOP220001 E405 (Stationary Reciprocating Engine)
Print Date: 5/9/2022

Make:	<input type="text" value="Diesel"/>		
Manufacturer:	<input type="text" value="Clarke"/>		
Model:	<input type="text" value="DDFP-06FA"/>		
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="2.84"/>		
Class:	<input type="text"/>		
Description:	<input type="text"/>		
Duty:	<input type="text"/>		
Description:	<input type="text"/>		
Minimum Load Range (%):	<input type="text"/>		
Maximum Load Range (%):	<input type="text"/>		
Stroke:	<input type="text"/>		
Power Output (BHP):	<input type="text" value="368"/>		
Electric Output(KW):	<input type="text"/>		
Compression Ratio:	<input type="text"/>		
Ignition Type:	<input type="text"/>		
Description:	<input type="text"/>		
Engine Speed (RPM):	<input type="text"/>		
Engine Exhaust Temperature (°F):	<input type="text"/>		
Air to Fuel Ratio at Peak Load:	<input type="text"/>		
Ratio Basis:	<input type="text"/>		
Lambda Factor (scfm/scfm):	<input type="text"/>		
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>		
Output Type:	<input type="text"/>		
Heat to Power Ratio:	<input type="text"/>		
Is the Engine Using a Turbocharger?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Is the Engine Using (check all that apply):			
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter	<input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard	<input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/>	Non-Selective Catalytic Retard (NSCR)	<input type="checkbox"/>
Other	<input type="checkbox"/>		
Description:	<input type="text"/>		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Comments:	<input type="text"/>		

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

55707 POLYMER ADDITIVES INC BOP220001 E406 (Stationary Reciprocating Engine)
Print Date: 5/9/2022

Make:	<input type="text" value="Diesel"/>		
Manufacturer:	<input type="text" value="Hercules Engine, Inc."/>		
Model:	<input type="text" value="DA 8008T"/>		
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="1.1"/>		
Class:	<input type="text" value="Lean Burn"/>		
Description:	<input type="text"/>		
Duty:	<input type="text"/>		
Description:	<input type="text"/>		
Minimum Load Range (%):	<input type="text"/>		
Maximum Load Range (%):	<input type="text"/>		
Stroke:	<input type="text"/>		
Power Output (BHP):	<input type="text"/>		
Electric Output(KW):	<input type="text" value="100"/>		
Compression Ratio:	<input type="text"/>		
Ignition Type:	<input type="text"/>		
Description:	<input type="text"/>		
Engine Speed (RPM):	<input type="text"/>		
Engine Exhaust Temperature (°F):	<input type="text"/>		
Air to Fuel Ratio at Peak Load:	<input type="text"/>		
Ratio Basis:	<input type="text"/>		
Lambda Factor (scfm/scfm):	<input type="text"/>		
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>		
Output Type:	<input type="text"/>		
Heat to Power Ratio:	<input type="text"/>		
Is the Engine Using a Turbocharger?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Is the Engine Using (check all that apply):			
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter	<input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard	<input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/>	Non-Selective Catalytic Retard (NSCR)	<input type="checkbox"/>
Other	<input type="checkbox"/>		
Description:	<input type="text"/>		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No		

Comments:

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

55707 POLYMER ADDITIVES INC BOP220001 E501 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	equalization tank
Capacity:	88,000.00
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:

55707 POLYMER ADDITIVES INC BOP220001 E502 (Other Equipment)
Print Date: 5/9/2022

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240000

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

☐ Yes
☐ No

55707 POLYMER ADDITIVES INC BOP220001 E503 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	stormwater basin; capacity 3600000
Capacity:	
Units:	
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:

55707 POLYMER ADDITIVES INC BOP220001 E505 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	neutralizer tank
Capacity:	15,000.00
Units:	
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:

55707 POLYMER ADDITIVES INC BOP220001 E506 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	neutralizer tank
Capacity:	15,000.00
Units:	
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:

55707 POLYMER ADDITIVES INC BOP220001 E507 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	neutralizer tank
Capacity:	15,000.00
Units:	
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:

55707 POLYMER ADDITIVES INC BOP220001 E508 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	clarifier
Capacity:	94,000.00
Units:	
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:

55707 POLYMER ADDITIVES INC BOP220001 E509 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	clarifier
Capacity:	94,000.00
Units:	
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:

55707 POLYMER ADDITIVES INC BOP220001 E511 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	aeration basin, 1000000 capacity
Capacity:	
Units:	
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:

55707 POLYMER ADDITIVES INC BOP220001 E512 (Other Equipment)
Print Date: 5/9/2022

Make:

Manufacturer:

Model:

Equipment Type:

aeration basin, 1000000 capacity

Capacity:

Units:

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:

55707 POLYMER ADDITIVES INC BOP220001 E513 (Other Equipment)
Print Date: 5/9/2022

Make:

Manufacturer:

Model:

Equipment Type:

clatifier, 113000 capacity

Capacity:

Units:

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:

55707 POLYMER ADDITIVES INC BOP220001 E514 (Other Equipment)
Print Date: 5/9/2022

Make:

Manufacturer:

Model:

Equipment Type:

clatifier, 113000 capacity

Capacity:

Units:

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:

55707 POLYMER ADDITIVES INC BOP220001 E515 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	surge tank
Capacity:	2,000.00
Units:	
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:

55707 POLYMER ADDITIVES INC BOP220001 E516 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	sludge thickener, 100000 capacity
Capacity:	
Units:	
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:

55707 POLYMER ADDITIVES INC BOP220001 E517 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	rotary drum thickener
Capacity:	50.00
Units:	
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:

55707 POLYMER ADDITIVES INC BOP220001 E518 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	reactor storage tank
Capacity:	69,000.00
Units:	
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:

55707 POLYMER ADDITIVES INC BOP220001 E519 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	thermophilic reactor, 300000 capacity
Capacity:	
Units:	
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:

55707 POLYMER ADDITIVES INC BOP220001 E522 (Other Equipment)
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	
Equipment Type:	load dock - sludge tank trucks
Capacity:	250.00
Units:	gal/min
Description:	

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

☐ Yes
☒ No

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

☐ Yes
☒ No

Comments:

55707 POLYMER ADDITIVES INC BOP220001 E601 (Storage Vessel)
Print Date: 5/9/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

35,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Specular Aluminum

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

Yes

Type of Insulation:

calcium silicate

Insulation Thickness (in):

1.5

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft²)(deg F)]:

0.40000

Shape of Storage Vessel:

Cylindrical

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

16.00

Length (ft):

Width (ft):

Diameter (ft):

20.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

250.00

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):

3.00

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

55707 POLYMER ADDITIVES INC BOP220001 E601 (Storage Vessel)
Print Date: 5/9/2022

Does the storage vessel
have a Conservation Vent?

Yes

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:

55707 POLYMER ADDITIVES INC BOP220001 E602 (Boiler)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Henry Vogt Machine Co."/>
Model:	<input type="text" value="vv99-60"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="46.40"/>
Boiler Type:	<input type="text" value="Water Tube"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text" value="35,000.00"/>
Fuel Firing Method:	<input type="text"/>
Description (if other):	<input type="text"/>
Draft Type:	<input type="text"/>
Heat Exchange Type:	<input type="text"/>

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

Low NOx Burner:	<input checked="" type="checkbox"/> Type: <input type="text" value="Free jet"/>
Staged Air Combustion:	<input type="checkbox"/>
Flue Gas Recirculation (FGR):	<input checked="" type="checkbox"/> Amount (%): <input type="text" value="5.00"/>

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:

55707 POLYMER ADDITIVES INC BOP220001 E603 (Boiler)
Print Date: 5/9/2022

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Murray Iron Work Co."/>
Model:	<input type="text" value="MCF4-61"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="84.60"/>
Boiler Type:	<input type="text" value="Water Tube"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text"/>
Fuel Firing Method:	<input type="text"/>
Description (if other):	<input type="text"/>
Draft Type:	<input type="text"/>
Heat Exchange Type:	<input type="text"/>

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

Low NOx Burner:	<input checked="" type="checkbox"/>	Type: <input type="text" value="Free jet"/>
Staged Air Combustion:	<input type="checkbox"/>	
Flue Gas Recirculation (FGR):	<input checked="" type="checkbox"/>	Amount (%): <input type="text" value="25.00"/>

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:

55707 POLYMER ADDITIVES INC BOP220001 E700 (Boiler)
Print Date: 5/9/2022

Make:	<input type="text" value="Indeck"/>
Manufacturer:	<input type="text" value="Indeck Boiler"/>
Model:	<input type="text" value="OT-75"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="99.90"/>
Boiler Type:	<input type="text" value="Water Tube"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text" value="75,000.00"/>
Fuel Firing Method:	<input type="text" value="Other firing method"/>
Description (if other):	<input type="text"/>
Draft Type:	<input type="text" value="Forced"/>
Heat Exchange Type:	<input type="text" value="Indirect"/>

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

Low NOx Burner:	<input checked="" type="checkbox"/>	Type: <input type="text"/>
Staged Air Combustion:	<input type="checkbox"/>	
Flue Gas Recirculation (FGR):	<input checked="" type="checkbox"/>	Amount (%): <input type="text" value="5.00"/>

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:

POLYMER ADDITIVES INC (55707)

Date: 5/9/2022

BOP220001

**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
CD1	02-CD-01	Toluene Storage/Unloading	Condenser	4/22/1999	No		
CD3	02-CD-05	South Caustic Scrubber	Scrubber (Packed Tower)	4/22/1999	No		
CD4	02-CD-06	Toluene Stripper	Scrubber (Venturi)	4/22/1999	No		
CD5	02-CD-08	BzCl/HCl Loading Docks	Scrubber (Packed Tower)	4/22/1999	No		
CD6	05-CD-09	HCl Storage Tanks	Scrubber (Venturi)	4/22/1999	No		
CD201	08-CD-01	POCl3 Storage Tank	Scrubber (Packed Tower)	4/22/1999	No		
CD301	03-CD-01	Butanol Storage Tank	Condenser	4/22/1999	No		
CD302	03-CD-02	TEA Storage Tank	Adsorber	5/10/2008	No		
CD303	03-CD-03	Phthalic Anhydride Storage Tank	Condenser	4/22/1999	No		
CD304	03-CD-04	Salt Dissolver	Condenser	4/22/1999	No		
CD700	Boiler SCR	Boiler SCR	Selective Catalytic Reduction	4/1/2022			

55707 POLYMER ADDITIVES INC BOP220001 CD1 (Condenser)
Print Date: 5/9/2022

Make:	Storage Tank LN2 VRS
Manufacturer:	Liquid Carbonic Industrial Co.
Model:	
Condenser Type:	Direct Contact
Type of Material of Which Shell Is Constructed:	
Type of Material of Which Tubes Are Constructed:	
Minimum Gas Inlet Temperature (°F):	68.0
Maximum Gas Inlet Temperature (°F):	248.0
Heat Transfer (Contact) Surface Area (ft²):	
Maximum Gas Flow (acfm):	326.0
Minimum Cooling Medium Flow Rate (gpm):	
Maximum Cooling Medium Flow Rate (gpm):	300.0
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (°F):	-320
Maximum Cooling Medium Inlet Temperature (°F):	-300
Minimum Cooling Medium Outlet Temperature (°F):	-40
Maximum Cooling Medium Outlet Temperature (°F):	40
Minimum Gas Outlet Temperature (°F):	-94
Maximum Gas Outlet Temperature (°F):	-4
Minimum Condensate Outlet Temperature (°F):	
Maximum Condensate Outlet Temperature (°F):	
Type of Cooling Medium:	Liquid N2
Use of Condensate:	Air Pollution Control
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

55707 POLYMER ADDITIVES INC BOP220001 CD1 (Condenser)
Print Date: 5/9/2022

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

☐ Yes ☒ No

Comments:

1) VOC: 95% Design Efficiency.
2) Toluene: 95% Design Efficiency.

55707 POLYMER ADDITIVES INC BOP220001 CD3 (Scrubber (Packed Tower))
Print Date: 5/9/2022

Make:	Custom Design
Manufacturer:	Anderson 2000 Inc.
Model:	WKH-1.8 Ejector, M-08 Packed Tower
Is the Scrubber Used for Particulate Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	Pressure gage
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):	10.00
Maximum Operating Liquid Flow Rate (gpm):	100.00
Method of Monitoring Liquid Flow Rate:	Magmeter, Process Computer Data Historian
Minimum Operating Gas Flow Rate (acfm):	180.00
Maximum Operating Gas Flow Rate (acfm):	1,800.00
Method of Monitoring Gas Flow Rate:	None
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	10.00
Method of Monitoring Pressure Drop:	Pressure Gauge, Computer Memory
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Height of Packed Section (ft):	10
Type of Packing Material:	PVC Saddle Packing
Size of Packing Material (in):	1
Tower Diameter (ft):	2.50
Total Tower Height (ft):	11.75
Maximum Operating Temperature of the Inlet Gas (°F):	
Maximum Operating Temperature of the Exhaust Gas(°F):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	5
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Pump Discharge Pressure
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

Have you attached any
manufacturer's data or specifications
in support of the feasibility and/or
effectiveness of this control
apparatus?

☐ Yes ☒ No

Comments:

1) Venturi: Spray Nozzle, Maximum In/Out Gas
Temperature = 150 F, 120 F; Minimum Operating
Liquid Flow Rate = 100 gpm; Relative Direction of
the Gas-Liquid Flow: co-current.
2) Pump Discharge Pressure (in. H₂O): Min = 1384,
Max = 3600.
3) HCl: 99% Design Efficiency or <= 20 ppmv;
4) Cl₂: 99% Design Efficiency or <= 100 ppmv.

55707 POLYMER ADDITIVES INC BOP220001 CD4 (Scrubber (Venturi))
Print Date: 5/9/2022

Make:	Ejector Venturi
Manufacturer:	Schutte & Koerting
Model:	Type 7014 3" Standard Scrubber-Separator System
Is the Scrubber Used for Particulate Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	27.68
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	Pressure Gauge
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):	1.00
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	Local Flow Meter
Minimum Operating Gas Flow Rate (acfm):	
Maximum Operating Gas Flow Rate (acfm):	24.00
Method of Monitoring Gas Flow Rate:	None
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	27.68
Method of Monitoring Pressure Drop:	None
Relative Direction of the Gas-Liquid Flow:	<input type="button" value="v"/>
Description:	
Throat Length (in):	
Throat Diameter (in):	0.50
Maximum Inlet Gas Temperature (°F):	115.0
Maximum Outlet Gas Temperature (°F):	115.0
Inlet Particle Grain Loading (gr/dscf):	
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:	Pump Discharge Pressure
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

55707 POLYMER ADDITIVES INC BOP220001 CD4 (Scrubber (Venturi))
Print Date: 5/9/2022

Comments:

- 1) HCl: 90% Design Efficiency.
- 2) Cl2: 90% Design Efficiency.

55707 POLYMER ADDITIVES INC BOP220001 CD5 (Scrubber (Packed Tower))
Print Date: 5/9/2022

Make:	
Manufacturer:	Ceilcote Company
Model:	"VCP Special" Counter-Current with Mist Eliminator
Is the Scrubber Used for Particulate Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	553.74
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	Pressure Gauge
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):	16.00
Maximum Operating Liquid Flow Rate (gpm):	56.00
Method of Monitoring Liquid Flow Rate:	Rotameter
Minimum Operating Gas Flow Rate (acfm):	
Maximum Operating Gas Flow Rate (acfm):	750.00
Method of Monitoring Gas Flow Rate:	None
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	10.00
Method of Monitoring Pressure Drop:	Pressure Gauge
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Height of Packed Section (ft):	8
Type of Packing Material:	Polypropylene Tellerettes
Size of Packing Material (in):	1
Tower Diameter (ft):	2.00
Total Tower Height (ft):	26.00
Maximum Operating Temperature of the Inlet Gas (°F):	
Maximum Operating Temperature of the Exhaust Gas(°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:	Make-Up Water Pump Discharge Pressure
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

55707 POLYMER ADDITIVES INC BOP220001 CD5 (Scrubber (Packed Tower))
Print Date: 5/9/2022

Have you attached any
manufacturer's data or specifications
in support of the feasibility and/or
effectiveness of this control
apparatus?

☐ Yes ☒ No

Comments:

1) Maximum Pump Discharge Pressure (in. H₂O):
1661.
2) Minimum Operating Liquid Flow Rate (gpm): 1
(make up).
3) VOC: 90% Design Efficiency.
4) BzCl: 90% Design Efficiency.
5) Hcl: 90% Design Efficiency.

55707 POLYMER ADDITIVES INC BOP220001 CD6 (Scrubber (Venturi))
Print Date: 5/9/2022

Make:	
Manufacturer:	
Model:	Schutte & Koerting
Is the Scrubber Used for Particulate Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	0.12
Maximum Operating Liquid Flow Rate (gpm):	4.00
Method of Monitoring Liquid Flow Rate:	Flow weter
Minimum Operating Gas Flow Rate (acfm):	25.00
Maximum Operating Gas Flow Rate (acfm):	
Method of Monitoring Gas Flow Rate:	None
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Throat Length (in):	
Throat Diameter (in):	1.50
Maximum Inlet Gas Temperature (°F):	170.0
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):	3
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

55707 POLYMER ADDITIVES INC BOP220001 CD6 (Scrubber (Venturi))
Print Date: 5/9/2022

Comments:

HCl efficiency > 99%

55707 POLYMER ADDITIVES INC BOP220001 CD201 (Scrubber (Packed Tower))
Print Date: 5/9/2022

Make:	
Manufacturer:	Croll - Reynolds Co. Inc.
Model:	16x16/36T-8H/84V
Is the Scrubber Used for Particulate Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	830.40
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	Pressure Gauge
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:	Flow Meter - Display Screen
Minimum Operating Gas Flow Rate (acfm):	
Maximum Operating Gas Flow Rate (acfm):	3,000.00
Method of Monitoring Gas Flow Rate:	None
Minimum Operating Pressure Drop (in. H2O):	8.00
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	Pressure Indicator - Display Screen
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Height of Packed Section (ft):	8
Type of Packing Material:	Tri-Pack
Size of Packing Material (in):	5.5
Tower Diameter (ft):	3.00
Total Tower Height (ft):	13.50
Maximum Operating Temperature of the Inlet Gas (°F):	95.0
Maximum Operating Temperature of the Exhaust Gas(°F):	95.0
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Density: 0.7-2.0 g/cm3 Pump Discharge Pressure
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

55707 POLYMER ADDITIVES INC BOP220001 CD201 (Scrubber (Packed Tower))
Print Date: 5/9/2022

Have you attached any
manufacturer's data or specifications
in support of the feasibility and/or
effectiveness of this control
apparatus?

☐ Yes ☒ No

Comments:

1) Venturi: Spray Nozzle L = 17 11/16", D = 3"
2) Maximum Pump Discharge Pressure (in. H₂O):
2768.
3) Minimum Operating Liquid Flow Rate (gpm): 100
lb/min (Packed Tower), 175 gpm (Venturi).
4) Relative Direction of the Gas-Liquid Flow:
Co-current (Venturi).
5) HCl: 99% Design Efficiency.

55707 POLYMER ADDITIVES INC BOP220001 CD301 (Condenser)
Print Date: 5/9/2022

Make:	Storage Tank LN2 VRS
Manufacturer:	Liquid Carbonic Industrial Co.
Model:	
Condenser Type:	Direct Contact ▼
Type of Material of Which Shell Is Constructed:	
Type of Material of Which Tubes Are Constructed:	
Minimum Gas Inlet Temperature (°F):	68.0
Maximum Gas Inlet Temperature (°F):	248.0
Heat Transfer (Contact) Surface Area (ft²):	
Maximum Gas Flow (acfm):	326.0
Minimum Cooling Medium Flow Rate (gpm):	
Maximum Cooling Medium Flow Rate (gpm):	300.0
Minimum Heat Removal Capacity (BTU/hr):	
Liquid to Gas Flow Ratio for Optimal Efficiency:	
Minimum Cooling Medium Inlet Temperature (°F):	-320
Maximum Cooling Medium Inlet Temperature (°F):	-300
Minimum Cooling Medium Outlet Temperature (°F):	-40
Maximum Cooling Medium Outlet Temperature (°F):	55
Minimum Gas Outlet Temperature (°F):	-94
Maximum Gas Outlet Temperature (°F):	-4
Minimum Condensate Outlet Temperature (°F):	
Maximum Condensate Outlet Temperature (°F):	
Type of Cooling Medium:	Liquid N2
Use of Condensate:	Air Pollution Control ▼
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

55707 POLYMER ADDITIVES INC BOP220001 CD301 (Condenser)
Print Date: 5/9/2022

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

☐ Yes ☒ No

Comments:

1) VOC: 95% Design Efficiency.
2) Butanol: 95% Design Efficiency.

55707 POLYMER ADDITIVES INC BOP220001 CD302 (Adsorber)

Print Date: 5/9/2022

Make:	<input type="text" value="General Carbon Corporation"/>
Manufacturer:	<input type="text" value="General Carbon Corporation"/>
Model:	<input type="text" value="The General (85 gallon)"/>
Adsorber Type:	<input type="text" value="FN"/>
Description:	<input type="text"/>
Maximum Gas Flow Rate to Adsorber (acfm):	<input type="text" value="26"/>
Maximum Temperature of Vapor Stream to Adsorber (°F):	<input type="text" value="100"/>
Minimum Temperature of Vapor Stream to Adsorber (°F):	<input type="text" value="45"/>
Minimum Moisture Content of Vapor Stream to Adsorber (%):	<input type="text" value="0.1"/>
Type of Adsorbant:	<input type="text" value="Pelletized activated carbon. General Carbon's GC C-40 or equivalent"/>
Bed Height:	<input type="text" value="3.58"/>
Bed Length:	<input type="text" value="2.67"/>
Bed Width:	<input type="text" value="2.67"/>
Units:	<input type="text" value="Feet"/>
Other Bed Dimension:	<input type="text"/>
Value:	<input type="text"/>
Units:	<input type="text"/>
Minimum Pressure Drop Across Adsorbant (in. H2O):	<input type="text" value="0.001"/>
Maximum Pressure Drop Across Adsorber (in. H2O):	<input type="text" value="200"/>
Total Weight of Adsorbant (lbs):	<input type="text" value="300"/>
Total Weight of Adsorbant When Saturated (lbs):	<input type="text" value="402"/>
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	<input type="text" value="0.34"/>
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	<input type="text" value="0.34"/>
Set-up Type:	<input type="text" value="Parallel"/>
Method of Determining Breakthrough (check all that apply):	
Continuous Emissions Monitor (CEM):	<input type="checkbox"/>
Replacement By Weight:	<input type="checkbox"/>
Periodic Testing:	<input type="checkbox"/>
Sampling Frequency:	<input type="text"/>
Sampling Device:	<input type="text"/>
Other:	<input type="checkbox"/>
Description:	<input type="text"/>
Minimum Concentration at Breakthrough (ppmvd):	<input type="text" value="9999.99"/>
Handling Method of Saturated Adsorbant:	<input type="text" value="Regenerated off-site"/>
Method of Regeneration:	<input type="text"/>

55707 POLYMER ADDITIVES INC BOP220001 CD302 (Adsorber)
Print Date: 5/9/2022

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?

☐ 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:

55707 POLYMER ADDITIVES INC BOP220001 CD303 (Condenser)
Print Date: 5/9/2022

Make:	Heat Pipe Condensing System
Manufacturer:	Veridyne
Model:	350L
Condenser Type:	Shell & Tube
Type of Material of Which Shell Is Constructed:	
Type of Material of Which Tubes Are Constructed:	
Minimum Gas Inlet Temperature (°F):	240.0
Maximum Gas Inlet Temperature (°F):	340.0
Heat Transfer (Contact) Surface Area (ft²):	
Maximum Gas Flow (acfm):	0.8
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):	266
Minimum Gas Outlet Temperature (°F):	0
Maximum Gas Outlet Temperature (°F):	340
Minimum Condensate Outlet Temperature (°F):	
Maximum Condensate Outlet Temperature (°F):	
Type of Cooling Medium:	Air
Use of Condensate:	Air Pollution Control
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

55707 POLYMER ADDITIVES INC BOP220001 CD303 (Condenser)
Print Date: 5/9/2022

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

☐ Yes ☒ No

Comments:

1) Maximum Cooling Medium Flow Rate (gpm): 1000 scfm.
2) Cooling Medium Inlet Temperature = Ambient.
3) VOC: 90% Design Efficiency.
4) Phthalic Anhydride: 90% Design Efficiency.

55707 POLYMER ADDITIVES INC BOP220001 CD304 (Condenser)
Print Date: 5/9/2022

Make:	<input type="text" value="Counter Current Barometric"/>
Manufacturer:	<input type="text" value="Schutte & Koerting Co."/>
Model:	<input type="text" value="Type 597"/>
Condenser Type:	<input type="text" value="Direct Contact"/>
Type of Material of Which Shell Is Constructed:	<input type="text"/>
Type of Material of Which Tubes Are Constructed:	<input type="text"/>
Minimum Gas Inlet Temperature (°F):	<input type="text" value="100.0"/>
Maximum Gas Inlet Temperature (°F):	<input type="text" value="200.0"/>
Heat Transfer (Contact) Surface Area (ft²):	<input type="text"/>
Maximum Gas Flow (acfm):	<input type="text" value="240.0"/>
Minimum Cooling Medium Flow Rate (gpm):	<input type="text" value="1.0"/>
Maximum Cooling Medium Flow Rate (gpm):	<input type="text" value="5.0"/>
Minimum Heat Removal Capacity (BTU/hr):	<input type="text"/>
Liquid to Gas Flow Ratio for Optimal Efficiency:	<input type="text"/>
Minimum Cooling Medium Inlet Temperature (°F):	<input type="text" value="50"/>
Maximum Cooling Medium Inlet Temperature (°F):	<input type="text" value="70"/>
Minimum Cooling Medium Outlet Temperature (°F):	<input type="text" value="50"/>
Maximum Cooling Medium Outlet Temperature (°F):	<input type="text" value="90"/>
Minimum Gas Outlet Temperature (°F):	<input type="text" value="0"/>
Maximum Gas Outlet Temperature (°F):	<input type="text" value="120"/>
Minimum Condensate Outlet Temperature (°F):	<input type="text"/>
Maximum Condensate Outlet Temperature (°F):	<input type="text"/>
Type of Cooling Medium:	<input type="text" value="Water"/>
Use of Condensate:	<input type="text" value="Air Pollution Control"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text" value="1"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<div style="border: 1px solid black; height: 80px;"></div>

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

55707 POLYMER ADDITIVES INC BOP220001 CD304 (Condenser)
Print Date: 5/9/2022

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

☐ Yes ☒ No

Comments:

- 1) VOC: 90% Design Efficiency.
- 2) Triethylamine: 90% Design Efficiency.
- 3) Ethyl Chloride: 90% Design Efficiency.
- 4) Benzyl Chloride: 90% Design Efficiency.

55707 POLYMER ADDITIVES INC BOP220001 CD700 (Selective Catalytic Reduction)
Print Date: 5/9/2022

Make:	Haldor Topsoe
Manufacturer:	Haldor Topsoe
Model:	DNX-1029
Minimum Temperature at Catalyst Bed (°F):	440
Maximum Temperature at Catalyst Bed (°F):	750
Minimum Temperature at Reagent Injection Point (°F):	440
Maximum Temperature at Reagent Injection Point (°F):	750
Type of Reagent:	Ammonia
Description:	
Chemical Formula of Reagent:	NH3
Minimum Reagent Charge Rate (gpm):	
Maximum Reagent Charge Rate (gpm):	
Minimum Concentration of Reagent in Solution (% Volume):	92
Minimum NOx to Reagent Mole Ratio:	1
Maximum NOx to Reagent Mole Ratio:	1
Maximum Anticipated Ammonia Slip (ppm):	10
Type of Catalyst:	TiO2 + V2O5 + WO3
Volume of Catalyst (ft³):	106
Form of Catalyst:	Homogenous Corrugated Substrate
Anticipated Life of Catalyst:	
Units:	
Have you attached a catalyst replacement schedule?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Method of Determining Breakthrough:	Stack Measurement for NOx + NH3
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 any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

55707 POLYMER ADDITIVES INC BOP220001 CD700 (Selective Catalytic Reduction)
Print Date: 5/9/2022

Comments:

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.		
PT1	02-AR-01	30-STV-07 Toluene Storage Tank	Round	2	38	545			100.0		0.0	326.0	Down	
PT2	02-AR-03	02-PTV-02 Toluene Recycle Tank	Round	2	8	1,141			100.0		0.0	5.0	Down	
PT3	02-AR-05	02-PRV-01 abcde Chlorinators, Toluene Stripper, Decanter, 05-STV-03,04,05 HCl Storage Tanks	Round	10	29	1,091			120.0		18.8	1,800.0	Up	
PT4	02-AR-06	02-PRV-05 BzCl South Column	Round	4	60	1,097			212.0		20.0	1.0	Horizontal	
PT5	02-AR-07	02-PRV-06 BzCl North Column	Round	4	60	1,123			212.0		4.0	1.0	Horizontal	
PT6	02-AR-08	02-PTV-05 North Benzal Residue Tank	Round	2	27	1,168			100.0		0.0	0.2	Down	
PT7	02-AR-09	02-STV-02 West BzCl Storage Tank	Round	3	20	1,117			100.0		0.0	26.6	Horizontal	
PT8	02-AR-10	02-STV-03 East BzCl Storage Tank	Round	3	20	1,116			100.0		0.0	26.6	Horizontal	
PT9	02-AR-12	02-STV-05 North BzCl Storage Tank	Round	3	19	1,307			100.0		0.0	26.6	Down	
PT10	72-AR-15	Fire Pump E11 Stack	Round	6	9	1,500			961.0			1,400.0	Horizontal	
PT13	02-AR-18	02-TTE-04, 05 05-TTE-01,02 HCl/BzCl Loading Dock	Round	10	27	1,415			100.0		198.3	793.0	Up	
PT14	02-AR-20	02-TTE-01 BzCl, BzPh, BzCHO Drumming	Round	4	20	1,249			100.0		0.0	7.0	Down	
PT15	02-AR-21	02-STV-08 Benzaldehyde Storage Tank	Round	3	1	1,200			120.0		0.0	0.3	Down	

POLYMER ADDITIVES INC (55707)
BOP220001

Date: 5/9/2022

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.		
PT16	02-AR-22	02-PTV-06 South Benzal Residue Tank	Round	2	27	1,168			100.0		0.0	0.2	Down	
PT201	08-AR-01	17-STV-06 Butanol Storage Tank	Round	3	20	1,200			100.0		0.0	26.7	Up	
PT202	08-AR-02	08-STV-04 Phenol Storage Tank	Round	3	27	1,138			100.0		0.0	13.3	Down	
PT203	08-AR-03	08-STV-20 POC13 Storage Tank	Round	3	16	1,169			100.0		1.7	1,775.0	Up	
PT208	08-AR-13	08-PTV-24 Alcohol Weigh Tank	Round	3	40	1,200			100.0		0.0	6.7	Down	
PT210	08-AR-15	08-PRV-01a HCl Absorber	Round	3	50	1,188			212.0		0.0	22.0	Horizontal	
PT211	08-AR-16	08-PTV HCl Seal Tank	Round	3	5	1,200			100.0		0.0	5.3	Down	
PT212	08-AR-18	08-STV-11 Phenate Tank	Round	4	167	1,200			100.0		0.0	1.3	Down	
PT213	08-AR-19	17-PTV-02 Phenate Tank	Round	3	13	1,200			100.0		0.0	1.3	Down	
PT214	08-AR-20	08-PTV-22 Phenate Weigh Tank	Round	3	15	1,200			77.0		0.0	13.4	Down	
PT215	08-AR-21	08-PTV-23 Caustic Mix Tank	Round	3	10	1,200			100.0		0.0	5.3	Down	
PT216	08-AR-23	08-PRV-02 Step 2/3 Reactor	Round	24	40	1,171			100.0		0.0	13.4	Down	
PT217	08-AR-24	08-PTV-09 Washer Feed Tank	Round	2	39	1,200			100.0		0.0	7.4	Down	
PT218	08-AR-25	08-PRV-04 Decanter #1	Square	1	26	1,200			185.0		0.0	1.0	Down	
PT219	08-AR-26	08-PRV-05 Mixpot #1	Rectangle	3	28	1,200			185.0		0.0	1.0	Down	
PT220	08-AR-27	08-PRV-06 Decanter #2	Round	2	26	1,200			185.0		0.0	1.0	Down	
PT221	08-AR-28	08-PRV-07 Mixpot #2	Round	3	23	1,200			185.0		0.0	1.0	Down	

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT222	08-AR-29	08-PRV-08 Decater #3	Round	1	24	1,200			185.0		0.0	1.0	Down	
PT223	08-AR-30	08-PRV-09 Mixpot #3	Round	3	22	1,200			185.0		0.0	1.0	Down	
PT224	08-AR-31	08-PRV-10 Decater #4	Round	1	24	1,200			185.0		0.0	1.0	Down	
PT225	08-AR-32	08-PRV-11 Mixpot #4	Round	3	22	1,200			185.0		0.0	1.0	Down	
PT226	08-AR-33	08-PRV-12 Decater #5	Round	1	22	1,200			185.0		0.0	1.0	Down	
PT227	08-AR-34	08-PRV-13 Mixpot #5	Round	3	21	1,200			185.0		0.0	1.0	Down	
PT228	08-AR-35	08-PRV-14 Decanter #6	Round	1	22	1,200			185.0		0.0	1.0	Down	
PT229	08-AR-36	08-PRV-15 Mixpot #6	Round	3	21	1,200			185.0		0.0	1.0	Down	
PT230	08-AR-37	08-PRV-16 Decanter #7	Round	2	41	1,200			185.0		0.0	1.0	Down	
PT231	08-AR-38	08-PRV-17 Mixpot #7	Round	3	38	1,200			185.0		0.0	1.0	Down	
PT232	08-AR-39	08-PRV-18 Decanter #8	Round	2	41	1,200			185.0		0.0	1.0	Down	
PT233	08-AR-40	08-PRV-19 Mixpot #8	Round	3	38	1,200			185.0		0.0	1.0	Down	
PT234	08-AR-41	08-PRV-20 Decanter #9	Round	2	41	1,200			185.0		0.0	1.0	Down	
PT235	08-AR-42	08-PRV-21 Mixpot #9	Round	3	38	1,200			185.0		0.0	1.0	Down	
PT236	08-AR-43	08-PTV-04 Steamer Feed Tank	Round	2	22	1,200			122.0		0.0	1.4	Down	
PT237	08-AR-44	08-PRV-03 and 3a Steamer Column/TiBP Dehydrator	Round	2	40	1,200			100.0		0.0	20.0	Horizontal	
PT238	08-AR-45	08-PTV-05 Steamer Overhead Tank	Round	2	10	1,200			127.0		0.0	0.1	Down	
PT239	08-AR-46	08-PTV-06 Caustic Settling Tank	Round	4	10	1,200			100.0		0.0	0.5	Down	

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT240	08-AR-47	08-PRV-22 Big Coalescer	Round	6	1	1,200			185.0		0.0	1.0	Horizontal	
PT241	08-AR-48	08-PRV023 Small Coalescer	Round	4	1	1,200			185.0		0.0	1.0	Horizontal	
PT242	08-AR-49	08-PTV-03 Salt Settling Tank	Round	4	12	1,200			100.0		0.0	17.4	Down	
PT301	03-AR-01	30-STV-06 Butanol Storage Tank	Round	2	30	1,300			55.0		0.0	326.0	Down	
PT302	03-AR-02	03-STV-02 T107 TEA Storage Tank & Carbon Adsorption System	Round	4	3	1,314			145.0		0.0	26.0	Horizontal	
PT304	03-AR-04	03-STV-01 Storage Tank	Round	3	25	1,200			100.0		0.0	20.0	Horizontal	
PT306	03-AR-08	01-STV-07 M403 Phtalic Anhydride Storage Tank	Round	4	30	1,138			300.0		0.0	26.7	Down	
PT307	03-AR-11	03-PRV-09e Salt Dissolver V305	Round	2	46	1,162			100.0		0.8	4.0	Horizontal	
PT308	03-AR-12	03-PTV-13 2nd Crude Decant Mixpot	Surface	10	27	1,158			208.0		0.0	10.0	Up	
PT309	03-AR-13	03-PTV-14 3rd Crude Decant Mixpot	Surface	10	26	1,167			208.0		0.0	10.0	Up	
PT310	03-AR-14	03-PTV-15 4th Crude Decant Mixpot	Surface	10	25	1,176			208.0		0.0	10.0	Up	
PT311	03-AR-15	03-PTV-01 1st Crude Decanter	Round	4	28	1,153			208.0		0.0	10.0	Horizontal	
PT312	03-AR-16	03-PTV-02 2nd Crude Decanter	Round	4	27	1,162			208.0		0.0	10.0	Horizontal	
PT313	03-AR-17	03-PTV-03 3rd Crude Decanter	Round	4	26	1,171			208.0		0.0	10.0	Horizontal	
PT314	03-AR-18	03-PTV-04 4th Crude Decanter	Round	4	25	1,181			208.0		0.0	10.0	Horizontal	

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT315	03-AR-19	03-PTV-05 Crude Hold Tank	Round	2	56	1,200			212.0		0.0	14.0	Horizontal	
PT316	03-AR-20	03-PRV-08 S-160 Steamer, S-160 Dryer	Round	2	55	1,194			208.0		0.0	100.0	Up	
PT317	03-AR-21	03-PTV-08 Steamer Overheads Tank	Round	3	18	1,213	70.0	30.0	100.0	0.0	0.0	0.1	Horizontal	
PT318	03-AR-22	03-PRV-04 Decolorizer	Round	4	60	1,200			208.0		0.0	10.0	Down	
PT319	03-AR-23	03-PRV-07 Hot Well	Round	3	0	1,193			212.0		0.0	14.0	Down	
PT321	03-AR-25	03-PTV-20 New Refining Decanter	Rectangle	10	40	1,200		180.0	212.0		0.0	0.0	Up	
PT322	03-AR-26	03-PTV-21 New Refining Decanter	Rectangle	10	23	1,200		180.0	212.0		0.0	0.0	Up	
PT323	03-AR-27	03-PTV-07 Dryer Surge Tank	Round	3	10	1,200			212.0		0.0	14.0	Down	
PT324	03-AR-28	03-STV-17 Filters Precoat Tank	Rectangle	3	5	1,200			100.0		0.0	7.0	Up	
PT325	03-AR-29	03-PRV-05 Square Sump	Round	2	25	1,202			212.0		0.0	14.0	Horizontal	
PT326	03-AR-30	03-PRV-06 Settling Basin	Round	6	8	1,188			208.0		0.0	10.0	Down	
PT327	03-AR-31	03-PTV-09 "A" Catch Tank	Round	2	60	1,178	140.0	104.0	176.0	0.1	0.0	10.0	Horizontal	
PT328	03-AR-32	03-PTV-10 "B" Catch Tank	Round	2	18	1,198			208.0		0.0	10.0	Down	
PT329	03-AR-33	03-PTV-22 Acid Wash Tank & Vent Scrubber	Round	2	50	1,193			100.0		0.0	0.4	Horizontal	
PT330	03-AR-35	03-STV-06 T111 Shift Tank	Round	4	19	1,300			100.0		0.0	10.0	Down	
PT331	03-AR-36	03-STV-07 T112 Shift Tank	Round	4	19	1,300			100.0		0.0	10.0	Down	
PT351	03-AR-56	27-PTV-01 Blend Tank 131	Round	3	46	1,300			122.0		0.0	30.0	Down	

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT352	03-AR-57	27-PTV-02 Blend Tank 132	Round	3	46	1,300			122.0		0.0	30.0	Down	
PT354		TA 351 Steamer Overheads Storage Tank	Round	3	33	1,200			100.0		0.0	2.0	Down	
PT355		TA 352 Steamer Overheads Storage Tank	Round	3	24	1,200			100.0		0.0	2.0	Down	
PT356		TA 353 Steamer Overheads Storage Tank	Round	3	33	1,196	54.0	45.0	100.0	0.0	0.0	0.1	Up	
PT357		TEA Tank Truck	Round	3	12	1,200	54.0	45.0	100.0	0.0	0.0	1.0	Horizontal	
PT358		TEA Tank Truck	Round	3	12	1,200	54.0	45.0	100.0	0.0	0.0	1.0	Horizontal	
PT359		TEA Tank Truck	Round	3	12	1,200	54.0	45.0	100.0	0.0	0.0	1.0	Horizontal	
PT360		TEA Tank Truck	Round	3	12	1,200	54.0	45.0	100.0	0.0	0.0	1.0	Horizontal	
PT361		TA 354 Steamer Overheads Storage Tank	Round	3	33	1,196	54.0	45.0	100.0	0.0	0.0	0.1	Up	
PT363		SOH Tank Truck	Round	3	12	1,200			100.0			1.0	Horizontal	
PT364		SOH Tank Truck	Round	3	12	1,200			100.0			1.0	Horizontal	
PT402	72-AR-16	72-STA-02 Generator PE 1	Round	6	9	1,000			625.0		0.0	2,000.0	Horizontal	
PT403	72-AR-17	72-STA-03 Generator PE 2	Round	6	9	1,000			625.0		0.0	2,000.0	Horizontal	
PT404	72-AR-18	72-STA-04 Generator Compressor Shed	Round	6	9	1,000			625.0		0.0	2,000.0	Horizontal	
PT405	72-AR-19	72-STA-05 West Water Diesel Pump	Round	6	9	500			625.0		0.0	2,000.0	Horizontal	
PT406	72-AR-20	72-STA-06 WWTP Diesel Generator	Round	3	10	300			625.0		0.0	2,000.0	Horizontal	

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT501	23-AR-08	23-STV-15 Phenol Equalization Tank	Round	4	3	1,183			100.0		0.0	16.7	Down	
PT502	23-AR-09	23-OTT-13 Stormwater Basin	Round	999	0	666			100.0		0.0	200.0	Up	
PT503	23-AR-10	23-OTT-12 Stormwater Lagoon	Round	999	5	621			100.0		0.0	0.4	Up	
PT505	23-AR-13	23-PRV-01 Neutralizing Tank	Round	4	15	233			100.0		0.0	196.0	Up	
PT506	23-AR-14	23-PRV-02 Neutralizing Tank	Round	4	15	245			100.0		0.0	194.0	Up	
PT507	23-AR-15	23-PRV-03 Neutralizing Tank	Round	4	15	237			100.0		0.0	194.0	Up	
PT508	23-AR-16	23-OTT-01 Primary Clarifier	Round	480	10	287			100.0		0.0	94.0	Up	
PT509	23-AR-17	23-OTT-02 Primary Clarifier	Round	480	10	231			100.0		0.0	94.0	Up	
PT510	23-AR-18	23-STV-14 Equalization Surge Tank	Round	10	12	278			68.0		0.0	13.0	Horizontal	
PT512	23-AR-20	23-OTT-03 Aeration Basin	Rectangle	999	12	328			100.0		0.0	150.0	Up	
PT513	23-AR-21	23-OTT-04 Aeration Basin	Rectangle	999	12	290			100.0		0.0	150.0	Up	
PT514	23-AR-22	23-OTT-05 Secondary Clarifier	Round	480	12	362			100.0		0.0	150.0	Up	
PT515	23-AR-23	23-OTT-06 Secondary Clarifier	Round	480	12	300			100.0		0.0	150.0	Up	
PT516	23-AR-24	23-OTT-14 Primary Sludge Storage Tank	Round	336	16	167			100.0		0.0	26.0	Up	
PT517	23-AR-25	23-OTT-15 Rotary Drum Thickener	Round	29	20	100			100.0		0.0	3,640.0	Horizontal	
PT518	23-AR-26	23-OTT-11 Secodary Sludge Thickener	Round	384	17	202			100.0		0.0	10.0	Up	

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							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT520	23-AR-28	23-TTE-01 Sludge Loading Spot	Round	18	13	250			200.0		0.0	30.0	Up	
PT524	23-AR-34	Filter Feed Tank	Round	96	9	250			70.0		0.0	150.0	Up	
PT526	23-AR-36	Filter Reject Tank	Rectangle	242	10	97			70.0		0.0	1,000.0	Up	
PT527	AFC Tank	AFC Tank	Square	27	44	200						187.0	Up	
PT528	ET Tank	Equalization Tank	Round	999	32	43	54.0	45.0	100.0	93.5	0.0	187.0	Up	
PT601	50-AR-01	50-STV-01 Fuel Oil Storage Tank	Round	3	22	1,000			100.0		0.0	30.0	Down	
PT602	50-AR-05	50-STA-01 Vogt Boiler	Round	36	40	1,200	325.0	32.0	625.0	13,196.0	0.0	21,500.0	Up	
PT603	50-AR-06	50-STA-02 Murray Boiler	Round	36	40	1,200	325.0	32.0	625.0	24,026.0	0.0	43,000.0	Up	
PT604	02-AR-01	30-STV-07 Toluene Storage Tank	Round	2	38	545			100.0		0.0	326.0	Down	
PT605	02-AR-22	02-PTV-06 South Benzal Residue Tank	Round	2	27	1,168			100.0		0.0	0.2	Down	
PT700	Temp Boiler	Temp Boiler	Round	48	34	1,200	586.0	440.0	600.0	41,771.0	14,046.0	42,000.0	Horizontal	

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	30-STV-07	Toluene Storage Tank (640,000 gallon capacity, Vertical Fixed Roof), controlled by Toluene Storage/Unloading Condenser (CD1)	Normal - Steady State	E1	CD1 (P)	PT1	3-01-999-98	0.0	8,760.0		0.0	326.0	0.0	100.0
OS2	02-PTV-02	Toluene Recycle Tank (2,200 gallon Process Vessel)	Normal - Steady State	E2		PT2	3-01-999-98	0.0	8,760.0		0.0	5.0	32.0	100.0
OS3	02-PRV01abce	Chlorinator Off-Gas/Toluene Recovery Decanter, controlled by South Caustic Scrubber (CD3)	Normal - Steady State	E3	CD3 (P)	PT3	3-01-999-98	0.0	8,760.0		0.0	1,800.0	32.0	120.0
OS4	02-PRV-01d	Toluene Stripper, controlled by South Caustic Scrubber (CD3) & Toluene Stripper Venturi Scrubber (CD4)	Normal - Steady State	E4	CD3 (P) CD4 (P)	PT3	3-01-999-98	0.0	8,760.0		0.0	1,800.0	32.0	120.0
OS5	02-PRV-05	South BzCl Refining Column	Normal - Steady State	E5		PT4	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	212.0
OS6	02-PRV-06	North BzCl Refining Column	Normal - Steady State	E6		PT5	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	212.0
OS7	02-PTV-05	North Benzal Chloride Residue Tank	Normal - Steady State	E7		PT6	3-01-999-98	0.0	8,760.0		0.0	0.2	32.0	100.0
OS8	02-STV-05	North BzCl Storage Tank (50,000 gallon capacity, Domed Vertical Fixed Roof)	Normal - Steady State	E8		PT9	3-01-999-98	0.0	8,760.0		0.0	26.6	32.0	100.0
OS9	02-STV-02	West BzCl Storage Tank (25,000 gallon capacity, Vertical Fixed Roof)	Normal - Steady State	E9		PT7	3-01-999-98	0.0	8,760.0		0.0	26.6	32.0	100.0

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								Min.	Max.		Min.	Max.	Min.	Max.
OS10	02-STV-03	East BzCl Storage Tank (25,000 gallon capacity, Vertical Fixed Roof)	Normal - Steady State	E10		PT8	3-01-999-98	0.0	8,760.0		0.0	26.6	32.0	100.0
OS18	05-STV-03	HCl Storage Tank 03 (29,000 gallon capacity, Domed Vertical Fixed Roof), controlled by South Caustic Scrubber (CD3) and Venturi Scrubber (CD6, Backup)	Normal - Steady State	E14	CD3 (P) CD6 (P)	PT3	3-01-999-98	0.0	8,760.0		0.0	1,800.0	32.0	100.0
OS20	05-STV-04	HCl Storage Tank 04 (29,000 gallon capacity, Domed Vertical Fixed Roof), controlled by South Caustic Scrubber (CD3) and Venturi Scrubber (CD6, Backup)	Normal - Steady State	E15	CD3 (P) CD6 (P)	PT3	3-01-999-98	0.0	8,760.0		0.0	1,800.0	32.0	100.0
OS22	05-STV-05	HCl Storage Tank 05 (29,000 gallon capacity, Domed Vertical Fixed Roof), controlled by South Caustic Scrubber (CD3) and Venturi Scrubber (CD6, Backup)	Normal - Steady State	E16	CD3 (P) CD6 (P)	PT3	3-01-999-98	0.0	8,760.0		0.0	1,800.0	32.0	100.0
OS23	02-TTE-04	BzCl Loading Dock - Trucks, controlled by BzCl/HCl Loading Docks Scrubber (CD5)	Normal - Steady State	E17	CD5 (P)	PT13	3-01-999-98	0.0	8,760.0		0.0	793.0	32.0	100.0
OS24	02-TTE-05	BzCl Loading Dock - Railcars, controlled by BzCl/HCl Loading Docks Scrubber (CD5)	Normal - Steady State	E18	CD5 (P)	PT13	3-01-999-98	0.0	8,760.0		0.0	793.0	32.0	100.0
OS25	05-TTE-01	HCl Loading Dock 01	Normal - Steady State	E19		PT13	3-01-999-98	0.0	8,760.0		0.0	793.0	32.0	100.0

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								Min.	Max.		Min.	Max.	Min.	Max.
OS26	05-TTE-02	HCl Loading Dock 02	Normal - Steady State	E20		PT13	3-01-999-98	0.0	8,760.0		0.0	793.0	32.0	100.0
OS27	02-TTE-01	BzCl Drum Loading	Normal - Steady State	E21		PT14	3-01-999-98	0.0	8,760.0		0.0	793.0	32.0	100.0
OS28	02-STV-08	Benzaldehyde Storage Tank (10,000 gallon capacity, Vertical Fixed Roof)	Normal - Steady State	E22		PT15	3-01-999-98	0.0	8,760.0		0.0	0.3	32.0	120.0
OS29	02-PTV-06	South Benzal Chloride Residue Tank	Normal - Steady State	E23		PT16	3-01-999-98	0.0	8,760.0		0.0	0.2	32.0	100.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	17-STV-06	Butanol Storage Tank (25,000 gallon capacity, Horizontal Fixed Roof)	Normal - Steady State	E201		PT201	3-01-999-98	0.0	8,760.0		0.0	26.6	32.0	100.0
OS2	08-STV-04	Phenol Storage Tank (50,000 gallon capacity, Domed Vertical Fixed Roof)	Normal - Steady State	E202		PT202	3-01-999-98	0.0	8,760.0		0.0	13.3	32.0	100.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS3	08-STV-20	POC13 Storage Tank (12,500 gallon capacity, Vertical Fixed Roof), controlled by Packed Tower Scrubber (CD201).	Normal - Steady State	E203	CD201 (P)	PT203	3-01-999-98	0.0	8,760.0		0.0	1,775.0	32.0	100.0
OS8	08-PTV-24	Alcohol Weigh Tank (1,000 gallon Process Vessel)	Normal - Steady State	E208		PT208	3-01-999-98	0.0	8,760.0		0.0	6.7	32.0	100.0
OS10	08-PRV-01a	HCl Absorber and Vacuum System (150 gallon Absorber)	Normal - Steady State	E210		PT210	3-01-999-98	0.0	8,760.0		0.0	22.0	32.0	212.0
OS12	08-PTV-23	Caustic Mix Tank (3,500 gallon Process Vessel)	Normal - Steady State	E211		PT215	3-01-999-98	0.0	8,760.0		0.0	5.3	32.0	100.0
OS13	08-PRV-02	Reactor II/III (8,000 gallon Process Vessel)	Normal - Steady State	E212		PT216	3-01-999-98	0.0	8,760.0		0.0	13.4	32.0	100.0
OS14	08-PTV-01	HCl Seal Tank (400 gallon Process Vessel)	Normal - Steady State	E213		PT211	3-01-999-98	0.0	8,760.0		0.0	5.3	32.0	100.0
OS15	08-STV-11	Phenate Tank (6,000 gallon Process Vessel)	Normal - Steady State	E214		PT212	3-01-999-98	0.0	8,760.0		0.0	1.3	32.0	100.0
OS16	17-PTV-02	Phenate Tank (11,500 gallon Process Vessel)	Normal - Steady State	E215		PT213	3-01-999-98	0.0	8,760.0		0.0	1.3	32.0	100.0
OS17	08-PTV-22	Phenate Weigh Tank (2,000 gallon Process Vessel)	Normal - Steady State	E216		PT214	3-01-999-98	0.0	8,760.0		0.0	13.4	32.0	100.0
OS18	08-PRV-05	Mixpot #1 (60 gallon Process Vessel)	Normal - Steady State	E217		PT219	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS19	08-PRV-07	Mixpot #2 (60 gallon Process Vessel)	Normal - Steady State	E218		PT221	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS20	08-PRV-09	Mixpot #3 (60 gallon Process Vessel)	Normal - Steady State	E219		PT223	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS21	08-PRV-11	Mixpot #4 (60 gallon Process Vessel)	Normal - Steady State	E220		PT225	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0

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								Min.	Max.		Min.	Max.	Min.	Max.
OS22	08-PRV-13	Mixpot #5 (60 gallon Process Vessel)	Normal - Steady State	E221		PT227	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS23	08-PRV-15	Mixpot #6 (60 gallon Process Vessel)	Normal - Steady State	E222		PT229	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS24	08-PRV-17	Mixpot #7 (60 gallon Process Vessel)	Normal - Steady State	E223		PT231	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS25	08-PRV-19	Mixpot #8 (60 gallon Process Vessel)	Normal - Steady State	E224		PT225	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS26	08-PRV-21	Mixpot #9 (60 gallon Process Vessel)	Normal - Steady State	E225		PT235	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS27	08-PRV-04	Decanter #1	Normal - Steady State	E226		PT218	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS28	08-PRV-06	Decanter #2	Normal - Steady State	E227		PT220	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS29	08-PRV-08	Decanter #3	Normal - Steady State	E228		PT222	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS30	08-PRV-10	Decanter #4	Normal - Steady State	E229		PT224	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS31	08-PRV-12	Decanter #5	Normal - Steady State	E230		PT226	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS32	08-PRV-14	Decanter #6	Normal - Steady State	E231		PT228	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS33	08-PRV-16	Decanter #7	Normal - Steady State	E232		PT230	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS34	08-PRV-18	Decanter #8	Normal - Steady State	E233		PT232	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS35	08-PRV-20	Decanter #9	Normal - Steady State	E234		PT234	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS36	08-PRV-03	Steamer Column (1,000 gallon Column)	Normal - Steady State	E235		PT237	3-01-999-98	0.0	8,760.0		0.0	20.0	32.0	75.0

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								Min.	Max.		Min.	Max.	Min.	Max.
OS37	08-PTV-05	Steamer Overheads Tank (5,000 gallon Process Vessel)	Normal - Steady State	E236		PT238	3-01-999-98	0.0	8,760.0		0.0	0.1	32.0	127.0
OS39	08-PRV-03a	DIBP Batch Dehydrator (5,000 gallon Reactor)	Normal - Steady State	E238		PT237	3-01-999-98	0.0	8,760.0		0.0	20.0	32.0	100.0
OS40	08-PTV-09	Washer Feed Tank (5,000 gallon Process Vessel)	Normal - Steady State	E239		PT217	3-01-999-98	0.0	8,760.0		0.0	7.4	32.0	100.0
OS41	08-PTV-04	Steamer Feed Tank (3,000 gallon Process Vessel)	Normal - Steady State	E240		PT236	3-01-999-98	0.0	8,760.0		0.0	1.4	32.0	122.0
OS43	08-PTV-06	Caustic Settling Tank (7,500 gallon Process Vessel)	Normal - Steady State	E242		PT239	3-01-999-98	0.0	8,760.0		0.0	0.5	32.0	100.0
OS44	08-PRV-22	Big Coalescer (3,500 gallon Oil/Water Separator)	Normal - Steady State	E243		PT240	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS45	08-PRV-23	Small Coalescer (700 gallon Oil/Water Separator)	Normal - Steady State	E244		PT241	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	185.0
OS46	08-PTV-03	Salt Settling Tank (5,000 gallon Process Vessel)	Normal - Steady State	E245		PT242	3-01-999-98	0.0	8,760.0		0.0	17.4	32.0	100.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	30-STV-06	Butanol Storage Tank (1,400,000 gallon capacity, Vertical Fixed Roof), controlled by Condenser (CD301)	Normal - Steady State	E301	CD301 (P)	PT301	3-01-999-98	0.0	8,760.0		0.0	326.0	0.0	55.0
OS2	03-STV-02	Triethylamine (TEA) Storage Tank (20,000 gallon capacity, Vertical Fixed Roof), controlled by Adsorber (CD302)	Normal - Steady State	E302	CD302 (P)	PT302	3-01-999-98	0.0	8,760.0		0.0	26.0	32.0	145.0
OS4	30-STV-16	Alcohol/Butanol Storage Tank	Normal - Steady State	E304		PT304	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	108.0
OS6	01-STV-07	Phthalic Anhydride Storage Tank (88,000 gallon capacity, Vertical Fixed Roof) (uncontrolled)	Normal - Steady State	E306		PT306	3-01-999-98	0.0	8,760.0		0.0	26.7	32.0	300.0
OS7	01-STV-07	Phthalic Anhydride Storage Tank (88,000 gallon capacity, Vertical Fixed Roof), controlled by Condenser (CD303)	Normal - Steady State	E306	CD303 (P)	PT306	3-01-999-98	0.0	8,760.0		0.0	26.7	32.0	300.0
OS8	03-PRV-09e	Salt Dissolver (1.500 gallon Process Vessel), controlled by Condenser (CD304)	Normal - Steady State	E307	CD304 (P)	PT307	3-01-999-98	0.0	8,760.0		0.0	4.0	32.0	100.0
OS9	03-PTV-13	2nd Crude Decanter Mixpot (60 gallon Process Vessel)	Normal - Steady State	E308		PT308	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	208.0
OS10	03-PTV-14	3rd Crude Decanter Mixpot (60 gallon Process Vessel)	Normal - Steady State	E309		PT309	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	208.0

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								Min.	Max.		Min.	Max.	Min.	Max.
OS11	03-PTV-15	4th Crude Decanter Mixpot (60 gallon Process Vessel)	Normal - Steady State	E310		PT310	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	208.0
OS12	03-PTV-01	1st Crude Decanter (800 gallon Process Vessel)	Normal - Steady State	E311		PT311	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	208.0
OS13	03-PTV-02	2nd Crude Decanter (800 gallon Process Vessel)	Normal - Steady State	E312		PT312	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	208.0
OS14	03-PTV-03	3rd Crude Decanter (800 gallon Process Vessel)	Normal - Steady State	E313		PT313	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	208.0
OS15	03-PTV-04	4th Crude Decanter (800 gallon Process Vessel)	Normal - Steady State	E314		PT314	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	208.0
OS16	03-PRV-08	S-160 Steamer (1,010 gallon Process Vessel)	Normal - Steady State	E315		PT316	3-01-999-98	0.0	8,760.0		0.0	100.0	32.0	208.0
OS17	03-PTV-08	Steamer Overheads Tank (15,000 gallon Process Vessel)	Normal - Steady State	E316		PT317	3-01-999-98	0.0	8,760.0		0.0	0.1	32.0	100.0
OS18	03-PRV-04	Decolorizer (1,000 gallon Process Vessel)	Normal - Steady State	E317		PT318	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	208.0
OS19	03-PTV-05	Crude Hold Tank (1,075 gallon Process Vessel)	Normal - Steady State	E318		PT315	3-01-999-98	0.0	8,760.0		0.0	14.0	32.0	212.0
OS20	03-PRV-07	Hot Well (135 gallon Process Vessel)	Normal - Steady State	E319		PT319	3-01-999-98	0.0	8,760.0		0.0	14.0	32.0	212.0
OS22	03-PTV-20	Refining Decanter (1,000 gallon Process Vessel)	Normal - Steady State	E321		PT321	3-01-999-98	0.0	8,760.0		0.0	0.0	32.0	212.0
OS23	03-PTV-21	Refining Decanter (3,200 gallon Process Vessel)	Normal - Steady State	E322		PT322	3-01-999-98	0.0	8,760.0		0.0	0.0	32.0	212.0
OS24	03-PRV-08a	S-160 Dryer (1,065 gallon Process Vessel)	Normal - Steady State	E323		PT316	3-01-999-98	0.0	8,760.0		0.0	100.0	32.0	208.0
OS25	03-PTV-07	Dryer Surge Tank (500 gallon Process Vessel)	Normal - Steady State	E324		PT323	3-01-999-98	0.0	8,760.0		0.0	14.0	32.0	212.0

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								Min.	Max.		Min.	Max.	Min.	Max.
OS26	03-STV-17	Pre Coat Tank (70 gallon Process Vessel)	Normal - Steady State	E325		PT324	3-01-999-98	0.0	8,760.0		0.0	7.0	32.0	100.0
OS27	03-PRV-06	Settling Basin (5,250 gallon Process Vessel)	Normal - Steady State	E326		PT326	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	208.0
OS28	03-PTV-09	"A" Catch Tank (13,000 gallon Process Vessel)	Normal - Steady State	E327		PT327	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	176.0
OS29	03-PTV-10	"B" Catch Tank (13,000 gallon Process Vessel)	Normal - Steady State	E328		PT328	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	208.0
OS30	03-PRV-05	Square Sump (1,500 gallon Process Vessel)	Normal - Steady State	E329		PT325	3-01-999-98	0.0	8,760.0		0.0	14.0	32.0	212.0
OS31	03-PTV-22	Acid Wash Storage Tank (10,000 gallon Process Vessel)	Normal - Steady State	E330		PT329	3-01-999-98	0.0	8,760.0		0.0	0.4	32.0	100.0
OS32	03-STV-06	T111 Shift Tank (10,000 gallon Process Vessel)	Normal - Steady State	E331		PT330	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	100.0
OS33	03-STV-07	T112 Shift Tank (10,000 gallon Process Vessel)	Normal - Steady State	E332		PT331	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	100.0
OS53	27-PTV-01	Blend Tank 131 (5,500 gallon Process Vessel)	Normal - Steady State	E352		PT351	3-01-999-98	0.0	8,760.0		0.0	30.0	32.0	122.0
OS54	27-PTV-02	Blend Tank 132 (5,500 gallon Process Vessel)	Normal - Steady State	E353		PT352	3-01-999-98	0.0	8,760.0		0.0	30.0	32.0	122.0
OS57		SOH Tank Truck 3	Normal - Steady State	E363		PT363	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	100.0
OS58		SOH Tank Truck 4	Normal - Steady State	E364		PT364	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	100.0
OS59	TA 351	SOH Storage Tank (15,000 gallon capacity, Vertical Fixed Roof)	Normal - Steady State	E354		PT354	3-01-999-98	0.0	8,760.0		0.0	2.0	32.0	100.0
OS60	TA 352	SOH Storage Tank (8,000 gallon capacity, Vertical Fixed Roof)	Normal - Steady State	E355		PT355	3-01-999-98	0.0	8,760.0		0.0	2.0	32.0	100.0

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								Min.	Max.		Min.	Max.	Min.	Max.
OS61	TA 353	SOH Storage Tank (15,000 gallon capacity, Vertical Fixed Roof)	Normal - Steady State	E365		PT356	3-01-999-98	0.0	8,760.0		0.0	2.0	32.0	100.0
OS62		TEA Tank Truck	Normal - Steady State	E366		PT357	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	100.0
OS63		TEA Tank Truck	Normal - Steady State	E367		PT358	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	100.0
OS64		TEA Tank Truck	Normal - Steady State	E368		PT359	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	100.0
OS65		TEA Tank Truck	Normal - Steady State	E369		PT360	3-01-999-98	0.0	8,760.0		0.0	1.0	32.0	100.0
OS66	TA 354	SOH Storage Tank (15,000 gallon capacity, Vertical Fixed Roof)	Normal - Steady State	E370		PT361	3-01-999-98	0.0	8,760.0		0.0	2.0	32.0	100.0

U 5 Utilities, subject to MACT Subpart ZZZZ

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	72-STA-02	Emergency Generator - Phos Esters 1 (North)	Normal - Steady State	E402		PT402	3-01-999-98	0.0	500.0		0.0	2,000.0	32.0	625.0
OS3	72-STA-03	Emergency Generator - Phos Esters 2 (South)	Normal - Steady State	E403		PT403	3-01-999-98	0.0	500.0		0.0	2,000.0	32.0	625.0

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								Min.	Max.		Min.	Max.	Min.	Max.
OS4	72-STA-04	Emergency Generator - Compressor Shed	Normal - Steady State	E404		PT404	3-01-999-98	0.0	500.0		0.0	2,000.0	32.0	625.0
OS5	72-STA-05	West Water Diesel Pump	Normal - Steady State	E405		PT405	3-01-999-98	0.0	500.0		0.0	2,000.0	32.0	625.0
OS6	72-STA-06	Emergency Generator - WWTP	Normal - Steady State	E406		PT406	3-01-999-98	0.0	500.0		0.0	2,000.0	32.0	625.0

U 6 Wastewater Treatment Plant

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	23-STV-15	Phenol Equalization Tank	Normal - Steady State	E501		PT501	3-01-999-98	0.0	8,760.0		0.0	16.7	32.0	100.0
OS2	23-OTT-13	Stormwater Basin	Normal - Steady State	E502		PT502	3-01-999-98	0.0	8,760.0		0.0	200.0	32.0	100.0
OS3	23-OTT-12	Stormwater Lagoon	Normal - Steady State	E503		PT503	3-01-999-98	0.0	8,760.0		0.0	34.0	32.0	100.0
OS5	23-PRV-01	Neutralizer #1	Normal - Steady State	E505		PT505	3-01-999-98	0.0	8,760.0		0.0	196.0	32.0	100.0
OS6	23-PRV-02	Neutralizer #2	Normal - Steady State	E506		PT506	3-01-999-98	0.0	8,760.0		0.0	194.0	32.0	100.0
OS7	23-PRV-03	Neutralizer #3	Normal - Steady State	E507		PT507	3-01-999-98	0.0	8,760.0		0.0	194.0	32.0	100.0

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New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 6 Wastewater Treatment Plant

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS8	23-OTT-01	Primary Clarifier	Normal - Steady State	E508		PT508	3-01-999-98	0.0	8,760.0		0.0	94.0	32.0	100.0
OS9	23-OTT-02	Primary Clarifier	Normal - Steady State	E509		PT509	3-01-999-98	0.0	8,760.0		0.0	94.0	32.0	100.0
OS11	23-OTT-03	Aeration Basin	Normal - Steady State	E511		PT512	3-01-999-98	0.0	8,760.0		0.0	150.0	32.0	100.0
OS12	23-OTT-04	Aeration Basin	Normal - Steady State	E512		PT513	3-01-999-98	0.0	8,760.0		0.0	150.0	32.0	100.0
OS13	23-OTT-05	Secondary Clarifier	Normal - Steady State	E513		PT514	3-01-999-98	0.0	8,760.0		0.0	150.0	32.0	100.0
OS14	23-OTT-06	Secondary Clarifier	Normal - Steady State	E514		PT515	3-01-999-98	0.0	8,760.0		0.0	150.0	32.0	100.0
OS15	23-STV-14	Equalization Surge Tank	Normal - Steady State	E515		PT510	3-01-999-98	0.0	8,760.0		0.0	13.0	32.0	100.0
OS16	23-OTT-11	Secondary Sludge Thickener	Normal - Steady State	E516		PT518	3-01-999-98	0.0	8,760.0		0.0	10.0	32.0	100.0
OS17	23-OTT-15	Rotary Drum Thickener	Normal - Steady State	E517		PT517	3-01-999-98	0.0	8,760.0		0.0	3,640.0	32.0	100.0
OS18	23-OTT-14	Primary Sludge Storage Tank	Normal - Steady State	E518		PT516	3-01-999-98	0.0	8,760.0		0.0	26.0	32.0	100.0
OS19	23-OTT-16	AFC Tank	Normal - Steady State	E519		PT527	3-01-999-98	0.0	8,760.0		0.0	6,500.0	32.0	100.0
OS22	23-TTE-01	Sludge Loading Spot	Normal - Steady State	E522		PT520	3-01-999-98	0.0	8,760.0		0.0	30.0	32.0	200.0
OS25	23-OTT-17	Filter Feed Tank	Normal - Steady State	E528		PT524								
OS27	23-OTT-20	Filter Reject Tank	Normal - Steady State	E527		PT526								
OS28	WWTP Manway	WWTP Conveyance System	Normal - Steady State	E604			3-01-999-98							

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New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 6 Wastewater Treatment Plant

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS29	ET Tank	1.5 Million Gallon Equalization Tank	Normal - Steady State	E529		PT528		0.0	8,760.0		0.0	187.0	45.0	100.0

U 7 Two Boilers, firing Natural Gas & #2 Fuel (Emergency Use Only), subject to MACT Subpart DDDDD and NSPS Subpart Dc

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	50-STA-01 O	Vogt - Burning Oil (Emergency Use Only)	Normal - Steady State	E602		PT602	1-03-005-02	0.0	48.0		0.0	21,500.0	32.0	625.0
OS3	50-STA-01 G	Vogt - Burning Natural Gas	Normal - Steady State	E602		PT602	1-03-005-02	0.0	8,760.0		0.0	21,500.0	32.0	625.0
OS4	50-STA-02 O	Murray - Burning Oil (Emergency Use Only)	Normal - Steady State	E603		PT603	1-03-006-02	0.0	48.0		0.0	43,000.0	32.0	625.0
OS5	50-STA-02 G	Murray - Burning Natural Gas	Normal - Steady State	E603		PT603	1-03-006-02	0.0	8,760.0		0.0	43,000.0	32.0	625.0

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New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 8 Vertical Fixed Roof Tank storing #2 Fuel Oil

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	50-STV-01	#2 Fuel Tank - 35,000 Gallons	Normal - Steady State	E601		PT601	3-01-999-98							

U 9 72-STA-01 East Fire Water Pump, 228 kW (GOP-003)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	72-STA-01	2 MMBTU/hr (HHV) Fire Pump (228 kW) #2 fuel oil, 100 hrs/yr	Normal - Steady State	E11		PT10								

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New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 700 Temp Boiler Temporary Boiler

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Temp Boiler	Temporary Boiler	Normal - Steady State	E700	CD700 (P)	PT700		0.0	4,320.0		14,046.0	42,000.0	440.0	600.0

**New Jersey Department of Environmental Protection
Subject Item Group Inventory**

Group NJID: GR1 MACT A

Members:

Type	ID	OS	Step
IS	IS3		
IS	IS4		
U	U 1	OS0 Summary	
U	U 3	OS0 Summary	
U	U 4	OS0 Summary	

Formal Reason(s) for Group/Cap:

☒ Other

Other (explain): MACT Subpart A

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

MACT Subpart A

Operating Circumstances:

Date: 5/9/2022

**New Jersey Department of Environmental Protection
Subject Item Group Inventory**

Group NJID: GR2 MACT F

Members:

Type	ID	OS	Step
IS	IS3		
IS	IS4		
U	U 1	OS0 Summary	

**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: GR3 MACT G

Members:

Type	ID	OS	Step
IS	IS3		
IS	IS4		
U	U 1	OS0 Summary	

Formal Reason(s) for Group/Cap:

☒ Other

Other (explain): MACT Subpart G

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

MACT Subpart G

Operating Circumstances:

**New Jersey Department of Environmental Protection
Subject Item Group Inventory**

Group NJID: GR4 MACT H

Members:

Type	ID	OS	Step
IS	IS3		
IS	IS4		
U	U 1	OS0 Summary	

**Condition/Requirements that will be complied with or are no longer
applicable as a result of this Group:**

Operating Circumstances:

MACT Subpart H

**New Jersey Department of Environmental Protection
Subject Item Group Inventory**

Group NJID: GR5 MACT NNNNN

Members:

Type	ID	OS	Step
U	U 1	OS0 Summary	
U	U 1	OS18 05-STV-03	
U	U 1	OS20 05-STV-04	
U	U 1	OS22 05-STV-05	
U	U 1	OS25 05-TTE-01	
U	U 1	OS26 05-TTE-02	
U	U 1	OS3 02-PRV01abce	

Formal Reason(s) for Group/Cap:

☒ Other

Other (explain): MACT Subpart A and NNNNN Requirements

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

none

Operating Circumstances:

all