



State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SHAWN M. LATOURETTE
Commissioner

Air Pollution Control Operating Permit Renewal

Permit Activity Number: BOP190002

Program Interest Number: 02102

Mailing Address	Plant Location
Stacy Lee Vice President of Operations MARCAL PAPER MILLS INC 1 MARKET ST Elmwood Park, NJ 07407-1451	MARCAL MANUFACTURING LLC 1 Market St Elmwood Park Bergen County

Initial Operating Permit Approval Date: December 30, 2005

Operating Permit Approval Date: DRAFT PERMIT

Operating Permit Expiration Date: TBD

AUTHORITY AND APPLICABILITY

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

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

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

PERMIT SHIELD

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

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

The permittee shall submit to the Department and to United States Environmental Protection Agency (US EPA) periodic compliance certifications, in accordance with N.J.A.C. 7:27-22.19. **The annual compliance certification** is due to the

Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. **Semi-annual deviation reports** relating to compliance testing and monitoring are due to the Department within 30 days after the end of the semi-annual period. The schedule and additional details for these submittals are available in Subject Item - FC, of the Facility Specific Requirements of this permit.

ACCESSING PERMITS

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

HELPLINE

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

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

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

COMPLIANCE ASSURANCE MONITORING

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

ADMINISTRATIVE HEARING REQUEST

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

If you have any questions regarding this permit approval, please call Warren Smith at (609) 940-5492.

Approved by:

[Supervisor's Name]

Enclosure

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

Facility Name: MARCAL MANUFACTURING LLC
Program Interest Number: 02102
Permit Activity Number: BOP190002

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Section A

Facility Name: MARCAL MANUFACTURING LLC

Program Interest Number: 02102

Permit Activity Number: BOP190002

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} (total)	Pb	HAPs* (total)	CO ₂ e ²
Emission Units Summary	52.4	216	185	36.3	29.5	38.4	38.4	NA	NA	
Batch Process Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Group Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Emissions	52.4	216	185	36.3	29.5	38.4	38.4	NA	NA	73,100

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} (total)	Pb	HAPs (total)
Insignificant Source Operations	1.02	0.582	0.146	0.18	3.09	3.13	3.13	NA	0.00008
Non-Source Fugitive Emissions	NA	NA	NA	NA	0.50	0.25	0.25	NA	NA

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 Total CO₂e emissions for the facility.

Section A

Facility Name: MARCAL MANUFACTURING LLC

Program Interest Number: 02102

Permit Activity Number: BOP190002

POLLUTANT EMISSIONS SUMMARY

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

HAP	TPY
7,12-Dimethylbenz(a)anthracene	0.0000123
Beryllium	0.000199
Cobalt	0.000064
Formaldehyde	0.0860
Hexane	1.38
Manganese	0.000397
Nickel	0.00161
POM	0.00154

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

Other Air Contaminant	TPY
N/A	

³ Do not sum the values below for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

Section B

Facility Name: MARCAL MANUFACTURING LLC

Program Interest Number: 02102

Permit Activity Number: BOP190002

GENERAL PROVISIONS AND AUTHORITIES

1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant that occurs only in areas over which the permittee has exclusive use or occupancy. Requirements relative only to nuisance situations, including odors, are not considered federally enforceable. [N.J.A.C. 7:27-22.16(g)8]
2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:
 - a. If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:
 - i. Immediately on the Department hotline at 1-(877) 927-6337, pursuant to N.J.S.A. 26:2C-19(e); and
 - ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or
 - b. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or
 - c. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare, or the environment and which will not likely result in citizen complaints, and the permittee intends to assert an affirmative defense, consistent with General Provision #10 below, the violation shall be reported by 5:00 PM of the second full calendar day following the occurrence, or of becoming aware of the occurrence.
3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]
4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]
5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

6. The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]
7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]
8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]
9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]
10. The permittee may not assert an affirmative defense to penalty liability for non-compliance with a provision or condition of the operating permit that is based on any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT. An affirmative defense to penalty liability for non-compliance with a provision or condition of the operating permit may be asserted by a permittee if:
 - a. The provision or condition of the operating permit is based solely on State or local law; and
 - b. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5.
11. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]
12. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]
13. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22 or 7:27-17.9(a), unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]
14. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.
15. Consistent with the provisions of N.J.A.C. 7:27-22.3(s), Except as otherwise provided in this subchapter, the submittal of any information or application by a permittee including, but not limited to, an application or notice for any change to the operating permit, including any administrative amendment, any minor or significant modification, renewal, a notice of a seven-day notice change, a notice of past or anticipated noncompliance, does not stay any operating permit condition, nor relieve a permittee from the obligation to obtain other necessary permits and to comply with all applicable Federal, State, and local requirements.
16. Applicable requirements derived from an existing or terminated consent decree with EPA will not be changed without advance consultation by the Department with EPA. N.J.A.C. 7:27-22.3(uu).
17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.
 - a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.

- b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.
 - c. The permittee cannot use temporary mobile equipment unless the owner or operator of the subject equipment has obtained and maintains an approved Air Pollution Control Permit, issued pursuant to N.J.A.C. 7:27-8 or 22, prior to bringing the temporary mobile equipment to operate at the major facility.
 - d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved Air Pollution Control Permit when the temporary mobile equipment operates on the property of the permittee.
 - e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of 90 days during any calendar year.
 - f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i)3.
 - g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.
 - h. Where short-term activities (employing temporary mobile equipment) will reoccur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.
18. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.
19. The permittee is responsible for submitting timely and administratively complete operating permit applications:
- Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
 - Seven-Day Notice changes [N.J.A.C. 7:27-22.22(e)];
 - Minor Modifications [N.J.A.C. 7:27-22.23(e)];
 - Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
 - Renewals [N.J.A.C. 7:27-22.30(b)].
20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website <https://dep.nj.gov/boss/applications-and-forms/> (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal at: <https://njdeponline.com/>. The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, the renewal application shall include all information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that any deficiencies can be identified and addressed to ensure that the application is administratively complete by the renewal deadline. Only renewal applications which are timely and administratively complete are eligible for an application shield.
21. For all source emissions testing performed at the facility, the phrase "worst case conditions without creating an unsafe condition" used in the enclosed compliance plan is consistent with EPA's National Stack

Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:

- a. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and
 - b. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.
22. Consistent with EPA's National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance.
 23. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]
 24. A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department's Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]
 25. Any emission limit values in an operating permit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to three significant figures (e.g. a printed limit of "1 lb/hr" means a limit of "1.00 lb/hr") except for concentration limits less than 10 parts per million (ppm). For such concentration limits, the emission limit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to two significant figures (e.g. a printed limit of "1 ppm" means a limit of "1.0 ppm").
 26. Testing every five years shall be defined as no later than the end of the 60th month after the first required and each subsequent stack test was completed for the new or modified source.

Section C

Facility Name: MARCAL MANUFACTURING LLC

Program Interest Number: 02102

Permit Activity Number: BOP190002

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: MARCAL MANUFACTURING LLC

Program Interest Number: 02102

Permit Activity Number: BOP190002

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

Subject Item and Name

Page Number

Facility (FC):

FC

1

Insignificant Sources (IS):

IS NJID	IS Description	
IS19	16,800 Gallon Storage Tank for Sodium Bisulfite Solution	7
IS29	500 Gallon Oil Tank	9
IS30	250 Gallon Oil Tank	10
IS32	250 Gallon Oil Tank	11
IS39	Non-Reactive Blending Vessels Each < 1,000 Gallons	12
IS55	18,000 Gallon Fuel Oil Storage Tank	14
IS56	6,000 Gallon Fuel Oil Tank	16
IS60	Space Heaters (HI < 1.0 MMBtu/hr)	18
IS61	(1) Emergency Generator ULSD Tank (275 gallons)	19
IS62	(1) Non-contact cooling tower < 50 lb/hr raw materials	20
IS64	Emergency Generator Cummins C50D6 50 KW	21

Emission Units (U):

U NJID	U Designation	U Description	
U1	Boilerhouse	Boilers 12 & 13 - 114 and 147 MMBtu/hr (Derated for Oil to 99 MMBtu/hr)	25
U2	#10 & 11 PM	No. 10 & 11 Paper Machines & Associated Equipment	47
U9	FD	Fiber Division Process Equipment	144
U15	Slush Tank	Process Tank for Paper Slush Feedstock	157
U22	Belt Presses	Soundview Paper Residuals Belt Presses	160
U23	Conveyor	Conveyor Bridge for Transferring Wet Soundview Paper Residuals to Bldg. 43	164
U40	Fiber Rec.	Fiber Recovery Process Equipment	167
U41	Towel 1	#1 Towel Line	171
U44	SewerPumps	2 Diesel Sewer Pumps, each 1.24 MMBtu/hr	175
U47	11 PM Em.Gen	No.11 Paper Machine Diesel Emergency Generator <= 15 MMBtu/hr (GP EG-A2)	181
U48	Fire Pump	Diesel Fire Pump at Gate #2	187
U60	300,000 Tank	300,000 Gallon ULSD Tank	193

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 220001

**Description
of Modifications:**

Permit Renewal.

Deleted U24, U25, U26, U27, and U49 due to fire destroying significant part of facility.
Deleted U18 boilers which had been permitted for #4 fuel oil. Deleted E4802. Deleted
orphan equipment E2101, E2102, CD5, and CD6.

Updated U1-OS0 to show stack testing only for NOx and CO on Natural Gas and TSP and
PM10 for Fuel Oil. Updated U1-OS1 - OS4 likewise.

Added U1-OS0, Ref. #3 specifying next stack test time.

..
Updated Insignificant Source Inventory

Listed PM2.5 as equal to PM10 throughout.

Updated Subpart 63 JJJJJ requirements in U1 Boilers.

Updated permit terminology throughout the permit.

Added new Ref. #26 to the Permit Text's General Provision. Stack testing is now every 5
years instead of referencing the permit renewal because each permit renewal is now for a
full 5 years from approval instead of expiring 5 years from the previous permit expiration.

BOP190002

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

Subject Item: FC

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

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

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

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

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

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

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

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

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

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	If an operating permit has expired, the conditions of the operating permit, including the requirements for stack testing 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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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS19 16,800 Gallon Storage Tank for Sodium Bisulfite Solution

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The operating temperature of the tank shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The tank or vessel shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank or vessel shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank or vessel shall not be subject to any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank or vessel, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank's or vessel's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The percentage by weight of all HAPs collectively in the raw material stored in the tank, or mixed or blended in the vessel, shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	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	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7-27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank or vessel meets the above applicable requirements and (3) attests that the tank or vessel is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: IS29 500 Gallon Oil Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015 % by weight). Maximum allowable sulfur content in No. 2 and lighter fuel oil. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: IS30 250 Gallon Oil Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015 % by weight). Maximum allowable sulfur content in No. 2 and lighter fuel oil. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: IS32 250 Gallon Oil Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015 % by weight). Maximum allowable sulfur content in No. 2 and lighter fuel oil. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

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

Subject Item: IS39 Non-Reactive Blending Vessels Each < 1,000 Gallons, IS40 Non-Reactive Blending Vessels Each > 1,000 Gallons, IS41 Non-Reactive Blending Vessels Each <= 1,000 Gallons, IS42 Non-Reactive Blending Vessels Each < 1,000 Gallons

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The operating temperature of the tank shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The tank or vessel shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank or vessel shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank or vessel shall not be subject to any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank or vessel, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank's or vessel's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The percentage by weight of all HAPs collectively in the raw material stored in the tank, or mixed or blended in the vessel, shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	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	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7-27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank or vessel meets the above applicable requirements and (3) attests that the tank or vessel is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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

Subject Item: IS55 18,000 Gallon Fuel Oil Storage Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	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 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.
2	The operating temperature of the tank shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank or vessel shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank or vessel shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank or vessel shall not be subject to any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank or vessel, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank's or vessel's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.1]	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	The percentage by weight of all HAPs collectively in the raw material stored in the tank, or mixed or blended in the vessel, shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
9	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7-27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank or vessel meets the above applicable requirements and (3) attests that the tank or vessel is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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

Subject Item: IS56 6,000 Gallon Fuel Oil Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 2,500 ppmw (0.25% by weight) for Zone 4. [N.J.A.C. 7:27- 9.2(a)]	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.
2	The operating temperature of the tank shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank or vessel shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank or vessel shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank or vessel shall not be subject to any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank or vessel, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank's or vessel's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.1]	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	The percentage by weight of all HAPs collectively in the raw material stored in the tank, or mixed or blended in the vessel, shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
9	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7-27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank or vessel meets the above applicable requirements and (3) attests that the tank or vessel is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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

Subject Item: IS60 Space Heaters (HI < 1.0 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions from the combustion of fuel except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015 % by weight). Maximum allowable sulfur content in No. 2 and lighter fuel oil. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

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

Subject Item: IS61 (1) Emergency Generator ULSD Tank (275 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015 % by weight). Maximum allowable sulfur content in No. 2 and lighter fuel oil. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

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

Subject Item: IS62 (1) Non-contact cooling tower < 50 lb/hr raw materials

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr . [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity may be no greater than 20% exclusive of visible condensed water, except for a period of not longer than 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.

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

Subject Item: IS64 Emergency Generator Cummins C50D6 50 KW

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
3	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility.</p> <p>The emergency generators shall be operated only:</p> <ol style="list-style-type: none"> 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; 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. <p>[N.J.A.C. 7:27-19.1] and [N.J.A.C. 7:27-19.2(d)1]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <ol style="list-style-type: none"> 1. Once per month, the total operating time from the generator's hour meter. 2. For each time the emergency generator is specifically operated for testing or maintenance: <ol style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 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>The permittee shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-19.11]</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
4	<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. 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 after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.
5	NMHC + NO _x ≤ 4.7 g/KW-hr, CO ≤ 5.0 g/KW-hr, PM ≤ 0.4 g/KW-hr. [40 CFR 60.4205(b)]	None.	Other: The permittee must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power.[40 CFR 60.4211].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The permittee 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 permittee 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.
7	The permittee must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. [40 CFR 60.4207(b)]	None.	None.	None.
8	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.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	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. [40 CFR 60.4211(f)(2)(i)]	Monitored by hour/time monitor continuously. The permittee 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 permittee must record the time of operation of the emergency engine and the reason the engine was in operation during that time. [40 CFR 60.4214(b)]	None.
10	The emergency generators must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII. 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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Emission Unit: U1 Boilers 12 & 13 - 114 and 147 MMBtu/hr (Derated for Oil to 99 MMBtu/hr)

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 63 Subpart A 40 CFR Part 63 Subpart JJJJJ [None]	None.	None.	None.
2	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a stack test no later than every five years (see General Provisions) from the last stack test using an approved protocol to demonstrate compliance with emission limits for emission limits for NO_x and CO, as specified in the compliance plan for OS1 and OS3, and TSP and PM₁₀, as specified in the compliance plan for OS2 and OS4.</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>The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NO_x and/or CO, with BTS approval. In order for BTS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above.</p> <p>[N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 12 months prior to the completion of the five year period since the last stack test. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: 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 BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a stack test no later than every five years (see General Provisions) from the last stack test using an approved protocol to demonstrate compliance with emission limits for NO_x and CO, as specified in the compliance plan for OS1 and OS3, and TSP and PM₁₀, as specified in the compliance plan for OS2 and OS4.</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>The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NO_x and/or CO, with BTS approval. In order for BTS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above.</p> <p>[N.J.A.C. 7:27-22.16(a)]</p>	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	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 no later than 12 months from the approval date of the OP Renewal, BOP190002. 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 BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>
4	VOC (Total) <= 50 ppmvd @ 7% O ₂ for each boiler. [N.J.A.C. 7:27-16.8(b)1]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	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. The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16. [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]	Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005 and the procedure set forth 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, CO and O2 in ppmvd, before and after the adjustment is made; and 6. Convert the emission values of NOx, CO and O2 concentrations measured in 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)]	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)]	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)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
7	VOC (Total) <= 4.22 tons/yr. Maximum annual emission limit for both boilers based on the worst case fuel usage limits in operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 157 tons/yr. Maximum annual emission limit for both boilers based on the worst case fuel usage limits in operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO <= 64.5 tons/yr. Maximum annual emission limit for both boilers based on the worst case fuel usage limits in operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	SO2 <= 14.2 tons/yr. Maximum annual emission limit for both boilers based on the worst case fuel usage limits in operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 6.89 tons/yr. Maximum annual emission limit for both boilers based on the worst case fuel usage limits in operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-10 (Total) <= 6.42 tons/yr. Maximum annual emission limit for both boilers based on the worst case fuel usage limits in operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-2.5 (Total) <= 6.42 tons/yr. [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	Fuel type is limited to natural gas and #2 fuel oil. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	Natural Gas Usage $\leq 1,535.3$ MMft ³ /yr. Maximum consumption of natural gas in any consecutive 365-day period for the total of both, boiler 12 and boiler 13, combined. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis). The permittee shall install, calibrate, operate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the range of the meter does not exceed twice the allowable unit capacity and such that the values monitored do not exceed the meter range. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Cubic feet per any consecutive 365-day period shall be calculated once per day as the sum of the cubic feet consumed during that day added to the sum of the cubic feet consumed during the preceding 364 days. This procedure will begin with the first full day following the final issuance of the initial operating permit. This accounting will not include gas consumption during days prior to the approval of the initial operating permit. The accounting will include the total natural gas consumed by both boilers in the emission unit. [N.J.A.C. 7:27-22.16(o)]	None.
16	No. 2 Fuel Oil Usage $\leq 932,142$ gal/yr. Total maximum annual consumption of #2 fuel oil for both, boiler 12 and boiler 13, combined. [N.J.A.C. 7:27-22.16(a)]	No. 2 Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 365 day period (rolling 1 day basis). The permittee shall install, calibrate, operate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the range of the meter does not exceed twice the allowable unit capacity and such that the values monitored do not exceed the meter range. [N.J.A.C. 7:27-22.16(o)]	No. 2 Fuel Oil Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Gallons per any consecutive 365-day period shall be calculated once per day as the sum of the gallons consumed during that day added to the sum of the gallons consumed during the preceding 364 days. This procedure will begin with the first full day following the final issuance of the initial operating permit. This accounting will not include fuel consumption during days prior to the approval of the initial operating permit. The accounting will include the total fuel oil consumed by both boilers in the emission unit. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	<p>Submit Notifications of Compliance Status report signed by the Responsible Official containing the following certifications:</p> <p>i) "This facility complies with the requirements in 40 CFR 63.11214 to conduct an initial tune-up of the boiler"</p> <p>ii) "This facility has had an energy assessment performed according to 40 CFR 63.11214(c). [40 CFR 63.11225(a)(4)]"</p>	None.	None.	Submit notification: As per the approved schedule. You must submit the Notification of Compliance Status in accordance with 40 CFR 63.9(h) by no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196. [40 CFR 63.11225(a)]
18	<p>No later than March 21, 2012, the permittee shall conduct a biennial tuneup as per below. Each biennial tune up must be conducted no more than 25 months after the previous tune up.</p> <p>(1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the burner inspection may be delayed until the next scheduled unit shutdown, but each burner must be inspected at least once every 36 months).</p> <p>(2) 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>(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.</p> <p>(4) Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.</p> <p>(5) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within one week of startup. [40 CFR 63.11223(b)]</p>	<p>Monitored by periodic emission monitoring at the approved frequency, biennially.</p> <p>(1) Measure the concentrations in the effluent stream of carbon monoxide (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). [40 CFR 63.11223(b)(5)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The permittee shall keep the following records to document conformance with the biennial tune up:</p> <p>i) Records identifying each boiler, the date of tune up, the procedures followed for tune-ups and the manufacturer's specifications to which the boiler was tuned.</p> <p>ii) Records documenting the fuel type(s) used monthly by each boiler, including, but not limited to a description of the fuel and the total fuel usage amount with units of measure. [40 CFR 63.11225(c)(2)]</p>	<p>Submit a report: As per the approved schedule. Maintain onsite and submit if requested by the Administrator, a biennial report containing the following information:</p> <p>(i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the boiler.</p> <p>(ii) A description of any corrective actions taken as a part of the tune-up of the boiler.</p> <p>(iii) The type and amount of fuel used over the 12 months prior to the biennial tune-up of the boiler. [40 CFR 63.11223(b)(6)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	<p>The permittee must have a one-time energy assessment performed by a qualified energy assessor, no later than March 21, 2014. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. The energy assessment must include:</p> <ul style="list-style-type: none"> (1) A visual inspection of the boiler system, (2) An evaluation of operating characteristics of the facility, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints, (3) Inventory of major systems consuming energy from affected boiler(s), (4) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage, (5) A list of major energy conservation measures, (6) A list of the energy savings potential of the energy conservation measures identified, (7) 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 63.11201(b)]</p>	None.	None.	None.
20	<p>The permittee must submit an Initial Notification, as specified in 40 CFR 63.9(b)(2) no later than 120 days after the source becomes subject to 40 CFR Part 63, Subpart JJJJJ. [40 CFR 63.11225(a)(2)]</p>	None.	None.	Submit notification: As per the approved schedule. [40 CFR 63.11225]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	<p>Prepare a biennial compliance report by March 1, and submit to the delegated authority upon request, a compliance certification for the previous calendar years containing the following information:</p> <p>1) Company name and address</p> <p>2) Statement by responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR Part 63, Subpart JJJJJ.</p> <p>3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken.</p> <p>4) The total fuel use by each affected boiler subject to an emission limit, for each calendar month with the reporting period, including, but not limited to, a description of the fuel. [40 CFR 63.11225(b)]</p>	None.	None.	<p>Submit a report: As per the approved schedule , biennially. Prepare and submit the annual compliance report by March 1 of the submittal year, if requested by the delegated authority, The report must be submitted by March 15 if the source experienced deviations from the applicable requirements during the reporting period. [40 CFR 63.11225(b)]</p>
22	<p>No owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. [40 CFR 63.4(b)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. [40 CFR 63.4(c)]	None.	None.	None.
24	The owner or operator of an affected source shall notify the Administrator in writing of the date for conducting opacity or visible emission observations, if such observations are required for the source by a relevant standard. [40 CFR 63.6(h)(4)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, record. At minimum, the most recent two 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 a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. Within 30 days before the opacity or visible emissions are scheduled, if no performance test is required. [40 CFR 63.9(f)]
25	The owner or operator of an affected source shall conduct opacity or visible emission observations if a relevant standard includes an opacity or visible emission standard. [40 CFR 63.6(h)(5)(i)]	Monitored by visual determination once initially, based on 6 minute blocks. Conducting observations in accordance with Test Method 9, for opacity and Test Method 22, for visible emissions, if no test method is specified. The minimum total time of opacity observations shall be 3 hours (30 6-minute averages). [40 CFR 63.6(h)(5)(ii)]	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, including all reports and notifications, required by 40 CFR 63 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 record. At minimum, the most recent two 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 a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Other (provide description): As per the approved schedule. The opacity and visible observations shall be conducted concurrently with the initial performance test required in 40 CFR 63.7. If no performance test is required, conduct these observations within 120 days after the compliance date for an existing or modified source. If visibility or other conditions prevent the opacity or visible emission observations from being conducted, the owner or operator shall conduct the opacity or visible emission observations not later than 30 days thereafter. [40 CFR 63.6(h)(5)(i)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	The owner or operator of an affected source shall submit the results of the opacity or visible emissions observations to the Administrator. [40 CFR 63.6(h)(5)(iii)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information, including all reports and notifications, required by 40 CFR 63 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 record. At minimum, the most recent two 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 a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit a report: As per the approved schedule. The owner or operator shall submit the results before the close of business on the 30th day following the completion of the observations, if no performance test is required. [40 CFR 63.10(d)(3)]
27	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. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most recent two 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 a 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
28	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) once initially. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most recent two 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 a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit the required air permit application(s): As per the approved schedule. The application shall be submitted as soon as practicable before actual construction or reconstruction begins. [40 CFR 63.5(d)(1)(i)]
29	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) once initially. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most recent two 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 a 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)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	After a title V permit has been issued, the owner or operator shall comply with all requirements for compliance status reports contained in the source's title V permit, including reports required under 40 CFR 63. After a title V permit has been issued to the owner or operator of an affected source, and each time a notification of compliance status is required under this part, the owner or operator of such source shall submit the notification of compliance status to the appropriate permitting authority following completion of the relevant compliance demonstration activity specified in the relevant standard. [40 CFR 63.9(h)(3)]	None.	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. At minimum, the most recent two 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 a 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 sent before the close of business on the 60th day following the completion of the relevant compliance demonstration to NJDEP. [40 CFR 63.9(h)(3)]
31	The owner or operator shall submit all information required under 40 CFR 63 to the Regional Enforcement Office of NJDEP. In addition, per 40 CFR 63.9(a)(4)(ii), the owner or operator shall send a copy of each report submitted to NJDEP under 40 CFR 63 to Director, Division of Enforcement and Compliance Assistance, USEPA Region 2, 290 Broadway, New York, NY 10007-1866. [40 CFR 63.10(a)(4)(ii)]	None.	Other: The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. 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)(1)].	Other (provide description): As per the approved schedule. Submit reports and notifications as required by 40 CFR 63 to EPA Region 2 and NJDEP. [40 CFR 63.13(b)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
32	General recordkeeping requirements. The owner or operator shall maintain files of all information (including all reports and notifications) required by 40 CFR 63 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. The owner or operator shall maintain relevant records per 40 CFR 63.10(b)(2) and 40 CFR 63.10(c). [40 CFR 63.10(b)(1)]	None.	None.	None.

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

Emission Unit: U1 Boilers 12 & 13 - 114 and 147 MMBtu/hr (Derated for Oil to 99 MMBtu/hr)

Operating Scenario: OS1 BOILER NO. 12 OPERATING ON NATURAL GAS

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 16.1 lb/hr. Maximum hourly emissions of particulates from the combustion of fuel, based on the rated heat input of the boiler. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Maximum Gross Heat Input <= 114 MMBTU/hr (HHV) for firing natural gas. Maximum gross heat input rate of Boiler 12. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel burner's rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
4	CO <= 100 ppmvd @ 7% O2 for each boiler. [N.J.A.C. 7:27-16.8(b)2]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs performed in compliance with N.J.A.C. 7:27-16.22. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test) . [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1, OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)]	NOx (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs , each performed over a consecutive 60-minute period specified by the Department, and performed in compliance with N.J.A.C. 7:27-19.17. NOx testing shall be conducted concurrently with CO testing. The applicable NOx emission limits in this subchapter will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the specified CO limit. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements specified in U1, OS Summary for details. [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
6	VOC (Total) <= 0.61 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	CO <= 9.39 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
8	NOx (Total) <= 22.8 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
9	SO2 <= 0.067 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.85 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.85 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	PM-2.5 (Total) <= 0.85 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	VOC (Total) <= 0.0054 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	CO <= 0.082 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
15	SO2 <= 0.0006 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
16	TSP <= 0.0075 lb/MMBTU. [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
17	PM-10 (Total) <= 0.0075 lb/MMBTU. [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 Boilers 12 & 13 - 114 and 147 MMBtu/hr (Derated for Oil to 99 MMBtu/hr)

Operating Scenario: OS2 BOILER NO. 12 OPERATING ON NO. 2 FUEL OIL, OS4 BOILER NO. 13 OPERATING ON NO. 2 FUEL OIL

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and. [N.J.A.C. 7:27- 3.2(c)]	Monitored by visual determination each week during operation. The permittee shall conduct visual inspections during daylight hours. Visual inspection shall consist of a visual survey to identify if the stack has visible emissions other than condensed water vapor. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to the manufacturer's specifications and the operating permit's compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to the Department pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step 1 does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. The owner or operator shall maintain records of the following: (1) date and time of inspection; (2) emission point number; (3) operational status of equipment; (4) observed results and conclusions; (5) description of corrective actions taken, if necessary; (6) date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results, if conducted; and (8) name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	Conduct an inspection: Upon occurrence of event. If visible emissions are observed, the permittee shall verify that the equipment and/or control device causing the emission is operating in accordance with manufacturer's specifications and the compliance plan conditions. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee shall report excess visible emissions to the Department pursuant to N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.16(o)]
2	Particulate Emissions <= 15 lb/hr. Maximum hourly emissions of particulates from the combustion of fuel, based on the derated heat input of the boiler. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 Parts per Million . [N.J.A.C. 7:27- 9.2(b)]	None.	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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Maximum Gross Heat Input <= 99 MMBTU/hr (HHV). Maximum heat input rate based on 707.2 gallons of fuel oil combusted and a heating value of 140,000 Btu per gallon. [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. The owner or operator shall install and operate a fuel flowmeter that shall meet an accuracy of not less than 2% per 40 CFR 75, Appendix D. The fuel limit shall be <= 707.2 gallons per hour. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The data acquisition system (DAS) shall record gallon per hour. [N.J.A.C. 7:27-22.16(o)]	None.
5	CO <= 100 ppmvd @ 7% O2 for each boiler. [N.J.A.C. 7:27-16.8(b)2]	None.	None.	None.
6	NOx (Total) <= 0.12 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)]	None.	None.	None.
7	VOC (Total) <= 0.14 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 11.9 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO <= 3.54 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	SO2 <= 20.9 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 2.33 lb/hr. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
12	PM-10 (Total) <= 1.63 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
13	PM-2.5 (Total) <= 1.63 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	CO <= 0.036 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

U1 Boilers 12 & 13 - 114 and 147 MMBtu/hr (Derated for Oil to 99 MMBtu/

OS2, OS4

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	VOC (Total) <= 0.0014 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
16	NOx (Total) <= 0.12 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	SO2 <= 0.211 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
18	TSP <= 0.024 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	TSP: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(e)]	TSP: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(e)]
19	PM-10 (Total) <= 0.016 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	PM-10 (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(e)]	PM-10 (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(e)]
20	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.

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

Emission Unit: U1 Boilers 12 & 13 - 114 and 147 MMBtu/hr (Derated for Oil to 99 MMBtu/hr)

Operating Scenario: OS3 BOILER NO. 13 OPERATING ON NATURAL GAS

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 17.9 lb/hr. Maximum hourly emissions of particulates from the combustion of fuel, based on the rated heat input of the boiler. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Maximum Gross Heat Input <= 147 MMBTU/hr (HHV) for firing natural gas. Maximum gross heat input rate of Boiler 13. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel burner's rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
4	CO <= 100 ppmvd @ 7% O2 for each boiler. [N.J.A.C. 7:27-16.8(b)2]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs performed in compliance with N.J.A.C. 7:27-16.22. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test) . [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1, OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)]	NOx (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs , each performed over a consecutive 60-minute period specified by the Department, and performed in compliance with N.J.A.C. 7:27-19.17. NOx testing shall be conducted concurrently with CO testing. The applicable NOx emission limits in this subchapter will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the specified CO limit. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements specified in U1, OS Summary for details. [N.J.A.C. 7:27-22.16(o)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	VOC (Total) <= 0.79 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	CO <= 12.11 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
8	NOx (Total) <= 29.4 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
9	SO2 <= 0.086 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 1.1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 1.1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	PM-2.5 (Total) <= 1.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	VOC (Total) <= 0.0054 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	CO <= 0.082 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements listed in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
15	SO2 <= 0.0006 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
16	TSP <= 0.0075 lb/MMBTU. [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
17	PM-10 (Total) <= 0.0075 lb/MMBTU. [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: U2 No. 10 & 11 Paper Machines & Associated Equipment

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each week during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 45.1 tons/yr (90,200 lb/yr). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	NOx (Total) <= 38.5 tons/yr (77,000 lb/yr). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 119 tons/yr (238,000 lb/yr). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2 <= 10.9 tons/yr (21,800 lb/yr). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	TSP <= 18.9 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 28.8 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 28.8 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	For wet end operations, process materials are limited to paper, pulp, water, and additives to the paper-making process. The combined VOC content of total process materials feed input is <= 0.01% by weight, and contains acetaldehyde, acrylamide, acrylic acid, aniline, benzene, bromoform, carbon disulfide, dichloroethyl ether, diethanolamine, diethyl sulfate, (1,4-)dioxane, epichlorohydrin, ethyl acrylate, ethylene oxide, ethylene thiourea, formaldehyde, hydrogen chloride, methanol, methyl chloride, methyl ethyl ketone, (2-)nitropropane, propylene oxide, toluene, vinyl acetate, xylene, chromium compounds, lead compounds, and nickel compounds at a combined weight percentage of less than 0.01% of the total process materials feed input. [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
11	For dry end operations, process materials are limited to paper, additives to the paper-making process, and finishing raw materials, including water-based adhesives and creping agents. The combined VOC content of total process materials feed input is $\leq 0.01\%$ by weight, and contains acetaldehyde, diethyl sulfate, (1,4-) dioxane, epichlorohydrin, and ethylene oxide, at a combined weight percentage of less than 0.01% of the total process materials feed input. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	Total Production Rate ≤ 250 dry tons/day of paper for each paper machine. Maximum process rate of the equipment in this emission unit. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of production records daily 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 daily during operation. [N.J.A.C. 7:27-22.16(o)]	None.
13	Total Production Rate $\leq 181,500$ tons/yr of dry paper. Maximum combined annual production rate for the two paper machines. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of production records monthly 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. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS1 10PM - No. 10 Paper Machine - 45 MMBTU/hr Burner (direct heat exchanger) Operating on Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 5.44 lb/hr. Maximum hourly emissions of particulates, based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	Maximum Gross Heat Input <= 45 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Dryer's rated heat input capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	TSP <= 0.4 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-10 (Total) <= 1.07 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-2.5 (Total) <= 1.07 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO2 <= 0.47 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	NOx (Total) <= 4.41 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	VOC (Total) <= 0.54 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	CO <= 14.2 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	Natural Gas Usage <= 386.5 MMft ³ per any 12-month period. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel usage totalizing meter 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. Volume of gas consumed per any consecutive 12-month period shall be calculated as the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. This procedure will begin with the first full month following the final issuance of the operating permit. This accounting will not include gas consumption during months prior to the approval of the operating permit. The permittee will select the time period for accounting (e.g., fiscal month, calendar month, production month), but once selected, the period must not be changed without prior approval from the NJDEP. [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
12	The permittee shall annually adjust the combustion process as specified at N.J.A.C. 7:27-19.16(a): Inspect burner, and clean or replace necessary components. Inspect flame patterns and the system controlling air-to-fuel ratio and make necessary adjustments to ensure optimum burner efficiency. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of the equipment source operation adjusted pursuant to N.J.A.C. 7:27-19.16(a) shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain 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 pursuant to N.J.A.C. 7:27-19.16(a)5; (5) a description of any corrective action taken; (6) results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MMBTU); (7) the type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment**Operating Scenario:** OS2 10PM - No. 10 Paper Machine - 45 MMBTU/hr Burner (direct heat exchanger) Operating on No. 2 Fuel Oil

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 5.44 lb/hr. Maximum hourly emissions of particulates, based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
4	Maximum Gross Heat Input <= 45 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Dryer's rated heat input capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	TSP <= 1.64 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-10 (Total) <= 6.6 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	PM-2.5 (Total) <= 6.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	SO2 <= 9.26 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	NOx (Total) <= 6.43 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	CO <= 4.87 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	VOC (Total) <= 0.56 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	No. 2 Fuel Oil Usage <= 313,044 gallons per any 12-month period. [N.J.A.C. 7:27-22.16(a)]	No. 2 Fuel Oil Usage: 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)]	No. 2 Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Gallons consumed per any consecutive 12-month period shall be calculated as the sum of the gallons consumed during any one month added to the sum of the gallons consumed during the preceding 11 months. This procedure will begin with the first full month following the final issuance of the operating permit. This accounting will not include oil consumption during months prior to the approval of the operating permit. The permittee will select the time period for accounting (e.g., fiscal month, calendar month, production month), but once selected, the period must not be changed without prior approval from the NJDEP. [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
13	The permittee shall annually adjust the combustion process as specified at N.J.A.C. 7:27-19.16(a): Inspect burner, and clean or replace necessary components. Inspect flame patterns and the system controlling air-to-fuel ratio and make necessary adjustments to ensure optimum burner efficiency. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of the equipment source operation adjusted pursuant to N.J.A.C. 7:27-19.16(a) shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain 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 pursuant to N.J.A.C. 7:27-19.16(a)5; (5) a description of any corrective action taken; (6) results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MMBTU); (7) the type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS3 10PM - No. 10 Paper Machine Emissions Venting Through Vacuum Pump Exhaust

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 3.84 lb/hr. Maximum emissions of particulate emissions from this source, based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 0.44 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS4 10PM - No. 10 Paper Machine Emissions Venting Through Roof Vents

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 18 lb/hr for the combined total of all roof exhaust fans (PT203 - PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 2.59 lb/hr. [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	PM-2.5 (Total) <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS5 10PM Pulper

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 18 lb/hr for the combined total of all roof exhaust fans (PT203 - PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 2.59 lb/hr. [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
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS6 10PM Dump Chest

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 18 lb/hr for the combined total of all roof exhaust fans (PT203 - PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

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

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS7 10PM De-Ink Chest

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 18 lb/hr for the combined total of all roof exhaust fans (PT203 - PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 2.59 lb/hr. [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
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS8 10PM Broke Chest

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 18 lb/hr for the combined total of all roof exhaust fans (PT203 - PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 2.59 lb/hr. [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
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS9 10PM Mixing Chest

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 18 lb/hr for the combined total of all roof exhaust fans (PT203 - PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 2.59 lb/hr. [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
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS10 10PM Broke Pulper

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 18 lb/hr for the combined total of all roof exhaust fans (PT203 - PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 2.59 lb/hr. [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
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS11 10PM Chest #1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 18 lb/hr for the combined total of all roof exhaust fans (PT203 - PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 2.59 lb/hr. [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
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS12 10PM Chest #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 18 lb/hr for the combined total of all roof exhaust fans (PT203 - PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 2.59 lb/hr. [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
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS13 10PM Stuff Box

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 18 lb/hr for the combined total of all roof exhaust fans (PT203 - PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

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

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS14 10PM Machine Silo/White Water Chest

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 18 lb/hr for the combined total of all roof exhaust fans (PT203 - PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 2.59 lb/hr. [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
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS15 10PM Sump Pit

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 18 lb/hr for the combined total of all roof exhaust fans (PT203 - PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 2.59 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 2.59 lb/hr. [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
5	VOC (Total) <= 0.05 lb/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: U2 No. 10 & 11 Paper Machines & Associated Equipment

Operating Scenario: OS17 10PM - Cleaning, OS37 11PM - Cleaning

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 674.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	Other: The permittee shall record the following information determined in accordance with the Procedure for Using Table 16A as outlined in N.J.A.C. 7:27-16.16(c): the chemical name and vapor pressure of the VOC used; 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 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. 7:27-22.16(o)].	None.
2	Total Material Transferred <= 674.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of solvent usage records daily during operation.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system daily during operation. Record the total hours the solvent is used per day, the total solvent gallons used per day, the total VOC in the solvent and the calculated average hourly VOC usage rate. [N.J.A.C. 7:27-22.16(o)]	None.
3	Total Material Transferred <= 38 tons/yr. Maximum total VOC applied from solvent usage per any 12-month period, for the total of both the No. 10 and No. 11 paper machines (operating scenarios OS17 and OS37). [N.J.A.C. 7:27-22.16(a)]	Other: The permittee shall review solvent usage records monthly, and calculate the amount of VOC applied each month based on the amount of solvent used and the VOC content of the solvent.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the total amount of solvent used in the immediately preceding month, the calculated total VOC applied in the month, and the sum total of VOC applied in that month plus that applied in the eleven preceding months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS21 11PM - No. 11 Paper Machine Burner (direct heat exchanger) Operating on Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.63 lb/hr. Maximum hourly emissions of particulates, based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	Maximum Gross Heat Input <= 41 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Dryer's rated heat input capacity.[N.J.A.C. 7:27-22.16(o)].	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	TSP <= 0.37 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-10 (Total) <= 0.98 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.98 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 4.02 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	VOC (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	CO <= 12.9 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	SO2 <= 0.43 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	Natural Gas Usage <= 352.1 MMft ³ /yr. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel usage totalizing meter 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. Volume of gas consumed per any consecutive 12-month period shall be calculated as the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. This procedure will begin with the first full month following the final issuance of the operating permit. This accounting will not include gas consumption during months prior to the approval of the operating permit. The permittee will select the time period for accounting (e.g., fiscal month, calendar month, production month), but once selected, the period must not be changed without prior approval from the NJDEP. [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
12	The permittee shall annually adjust the combustion process as specified at N.J.A.C. 7:27-19.16(a): Inspect burner, and clean or replace necessary components. Inspect flame patterns and the system controlling air-to-fuel ratio and make necessary adjustments to ensure optimum burner efficiency. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of the equipment source operation adjusted pursuant to N.J.A.C. 7:27-19.16(a) shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain 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 pursuant to N.J.A.C. 7:27-19.16(a); (5) a description of any corrective action taken; (6) results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MMBTU); (7) the type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-22.16(o)]	None.
13	Hours of Operation <= 240 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event. [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. [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: U2 No. 10 & 11 Paper Machines & Associated Equipment**Operating Scenario:** OS22 11PM - No. 11 Paper Machine Burner (direct heat exchanger) Operating on No. 2 Fuel Oil

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.63 lb/hr. Maximum hourly emissions of particulates, based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) \leq 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
4	Maximum Gross Heat Input \leq 41 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Dryer's rated heat input capacity.[N.J.A.C. 7:27-22.16(o)].	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	TSP <= 1.49 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-10 (Total) <= 6.01 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	PM-2.5 (Total) <= 6.01 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 5.86 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	CO <= 4.44 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	VOC (Total) <= 0.51 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	SO2 <= 8.43 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	No. 2 Fuel Oil Usage <= 200,000 gal/yr. [N.J.A.C. 7:27-22.16(e)]	No. 2 Fuel Oil Usage: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	No. 2 Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Gallons consumed per any consecutive 12-month period shall be calculated as the sum of the gallons consumed during any one month added to the sum of the gallons consumed during the preceding 11 months. This procedure will begin with the first full month following the final issuance of the operating permit. This accounting will not include oil consumption during months prior to the approval of the operating permit. The permittee will select the time period for accounting (e.g., fiscal month, calendar month, production month), but once selected, the period must not be changed without prior approval from the NJDEP. [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
13	The permittee shall annually adjust the combustion process as specified at N.J.A.C. 7:27-19.16(a): Inspect burner, and clean or replace necessary components. Inspect flame patterns and the system controlling air-to-fuel ratio and make necessary adjustments to ensure optimum burner efficiency. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of the equipment source operation adjusted pursuant to N.J.A.C. 7:27-19.16(a) shall ensure that each adjustment is recorded in a logbook or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain 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 pursuant to N.J.A.C. 7:27-19.16(a); (5) a description of any corrective action taken; (6) results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MMBTU); (7) the type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-22.16(o)]	None.
14	Hours of Operation <= 240 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event. [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. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS26 11PM - No. 11 Paper Machine Emissions Venting Through Roof Vents and Vacuum Pump Stack

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 30 lb/hr for the combined total of all roof exhaust fans (PT203-PT212), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-2.5 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	VOC (Total) <= 0.05 lb/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: U2 No. 10 & 11 Paper Machines & Associated Equipment

Operating Scenario: OS34 11PM Sump Pit, OS35 #11 Krofta, OS36 11PM Floatate Tank

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-16.16(g)1].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate; and 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
2	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS38 11PM AES Strainer #1, OS39 11PM AES Strainer #2

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-16.16(g)1].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	VOC (Total) <= 0.05 lb/hr. Maximum emission rate from operating permit modification application based on a VOC concentration of 2 ppmv and a volumetric flow rate of 7,600 gallon per minute. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
3	Flowrate <= 7,600 gal/min. [N.J.A.C. 7:27-22.16(a)]	Other: Maximum pump capacity from the manufacturer's pump specifications.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall maintain readily accessible records specification indicating maximum pump capacity.[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: U2 No. 10 & 11 Paper Machines & Associated Equipment**Operating Scenario:** OS40 10PM AES Strainer #1, OS41 10PM AES Strainer #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.05 lb/hr. Maximum emission rate from operating permit modification application based on a VOC concentration of 2 ppmv and a volumetric flow rate of 3,900 gallon per minute. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
2	Flowrate <= 3,900 gal/min. [N.J.A.C. 7:27-22.16(a)]	Other: Maximum pump capacity from the manufacturer's pump specifications.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall maintain readily accessible records specification indicating maximum pump capacity.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS42 11PM - No. 11 Paper Machine Burner Operating on Natural Gas; Mist Collector; Dust Collector

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 30 lb/hr. Maximum hourly emissions of particulates, based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	Maximum Gross Heat Input <= 41 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Dryer's rated heat input capacity.[N.J.A.C. 7:27-22.16(o)].	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	TSP <= 1.22 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 1.83 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 1.83 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 4.02 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	VOC (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	CO <= 12.9 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	SO2 <= 0.43 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	Natural Gas Usage <= 352.1 MMft ³ /yr. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel usage totalizing meter 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. Volume of gas consumed per any consecutive 12-month period shall be calculated as the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. This procedure will begin with the first full month following the final issuance of the operating permit. This accounting will not include gas consumption during months prior to the approval of the operating permit. The permittee will select the time period for accounting (e.g., fiscal month, calendar month, production month), but once selected, the period must not be changed without prior approval from the NJDEP. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	The permittee shall annually adjust the combustion process as specified at N.J.A.C. 7:27-19.16(a): Inspect burner, and clean or replace necessary components. Inspect flame patterns and the system controlling air-to-fuel ratio and make necessary adjustments to ensure optimum burner efficiency. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of the equipment source operation adjusted pursuant to N.J.A.C. 7:27-19.16(a) shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain 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 NO _x and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; (4) the concentration of O ₂ (in percent dry basis) at which the CO and NO _x concentrations were measured pursuant to N.J.A.C. 7:27-19.16(a); (5) a description of any corrective action taken; (6) results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MMBTU); (7) the type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-22.16(o)]	None.
13	Particulates Control Efficiency \geq 98 % for droplets greater than 500 microns in diameter. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	Pressure Drop \geq 3 and Pressure Drop \leq 10 inches w.c.. Pressure drop across the cyclone based on manufacturers specifications. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Flowrate of Scrubbing Medium at Scrubber Inlet ≥ 330 and Flowrate of Scrubbing Medium at Scrubber Inlet ≤ 350 gal/min , including recycle. [N.J.A.C. 7:27-22.16(e)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously while in operation. Manually record each instance when the control device is shut down for maintenance or repair. [N.J.A.C. 7:27-22.16(o)]	None.
16	Pressure Drop Across the Scrubber ≥ 5 and Pressure Drop Across the Scrubber ≤ 15 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously while in operation. Manually record each instance when the control device is shut down for maintenance and repair. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS43 11PM - No. 11 Paper Machine Burner Operating on Natural Gas; Mist Collector

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 30 lb/hr. Maximum hourly emissions of particulates, based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) \leq 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	Maximum Gross Heat Input \leq 41 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Dryer's rated heat input capacity.[N.J.A.C. 7:27-22.16(o)].	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	TSP <= 0.55 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 1.16 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 1.16 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 4.02 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	VOC (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	CO <= 12.9 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	SO2 <= 0.43 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	Natural Gas Usage <= 352.1 MMft ³ /yr. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel usage totalizing meter 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. Volume of gas consumed per any consecutive 12-month period shall be calculated as the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. This procedure will begin with the first full month following the final issuance of the operating permit. This accounting will not include gas consumption during months prior to the approval of the operating permit. The permittee will select the time period for accounting (e.g., fiscal month, calendar month, production month), but once selected, the period must not be changed without prior approval from the NJDEP. [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
12	The permittee shall annually adjust the combustion process as specified at N.J.A.C. 7:27-19.16(a): Inspect burner, and clean or replace necessary components. Inspect flame patterns and the system controlling air-to-fuel ratio and make necessary adjustments to ensure optimum burner efficiency. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of the equipment source operation adjusted pursuant to N.J.A.C. 7:27-19.16(a) shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain 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 pursuant to N.J.A.C. 7:27-19.16(a); (5) a description of any corrective action taken; (6) results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MMBTU); (7) the type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-22.16(o)]	None.
13	Air emissions captured by the No. 11 Paper Machine mist collector hood will pass through the cyclone (CD202) before being exhausted through a stack 79.5 feet above the ground. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	Particulates Control Efficiency \geq 98 % by the cyclone for droplets greater than 500 microns in diameter. [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
15	Pressure Drop ≥ 3 and Pressure Drop ≤ 10 inches w.c.. Pressure drop across the cyclone from operating permit application based on manufacturers specifications. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
16	Hours of Operation ≤ 240 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event. [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. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 No. 10 & 11 Paper Machines & Associated Equipment
Operating Scenario: OS44 11PM - No. 11 Paper Machine Burner Operating on Natural Gas; Dust Collector

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 30 lb/hr. Maximum hourly emissions of particulates, based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(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
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	Maximum Gross Heat Input <= 41 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Dryer's rated heat input capacity.[N.J.A.C. 7:27-22.16(o)].	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	TSP <= 1.04 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 1.65 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 1.65 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 4.02 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	VOC (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	CO <= 12.9 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	SO2 <= 0.43 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	Natural Gas Usage <= 352.1 MMft ³ /yr. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel usage totalizing meter 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. Volume of gas consumed per any consecutive 12-month period shall be calculated as the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. This procedure will begin with the first full month following the final issuance of the operating permit. This accounting will not include gas consumption during months prior to the approval of the operating permit. The permittee will select the time period for accounting (e.g., fiscal month, calendar month, production month), but once selected, the period must not be changed without prior approval from the NJDEP. [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
12	The permittee shall annually adjust the combustion process as specified at N.J.A.C. 7:27-19.16(a): Inspect burner, and clean or replace necessary components. Inspect flame patterns and the system controlling air-to-fuel ratio and make necessary adjustments to ensure optimum burner efficiency. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of the equipment source operation adjusted pursuant to N.J.A.C. 7:27-19.16(a) shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain 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 NO _x and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; (4) the concentration of O ₂ (in percent dry basis) at which the CO and NO _x concentrations were measured pursuant to N.J.A.C. 7:27-19.16(a); (5) a description of any corrective action taken; (6) results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MMBTU); (7) the type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-22.16(o)]	None.
13	Air emissions captured by the No. 11 Paper Machine dust collector hood will pass through the CGS multistage venturi scrubbing unit (CD201) before being exhausted through a stack 79.5 feet above the ground. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	Flowrate of Scrubbing Medium at Scrubber Inlet \geq 330 and Flowrate of Scrubbing Medium at Scrubber Inlet \leq 350 gal/min , including recycle. [N.J.A.C. 7:27-22.16(e)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously while in operation. Manually record each instance when the control device is shut down for maintenance or repair. [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
15	Pressure Drop Across the Scrubber ≥ 5 and Pressure Drop Across the Scrubber ≤ 15 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously while in operation. Manually record each instance when the control device is shut down for maintenance and repair. [N.J.A.C. 7:27-22.16(o)]	None.
16	Hours of Operation ≤ 240 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event. [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. [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: U2 No. 10 & 11 Paper Machines & Associated Equipment**Operating Scenario:** OS45 11PM - No. 11 Paper Machine Burner Operating on No. 2 Fuel Oil; Mist Collector; Dust Collector

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 30 lb/hr. Maximum hourly emissions of particulates, based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
4	Maximum Gross Heat Input <= 41 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Dryer's rated heat input capacity.[N.J.A.C. 7:27-22.16(o)].	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	TSP <= 2.34 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 6.86 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 6.86 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 5.86 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	CO <= 4.44 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	VOC (Total) <= 0.51 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	SO2 <= 8.43 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	No. 2 Fuel Oil Usage <= 200,000 gal/yr. [N.J.A.C. 7:27-22.16(e)]	No. 2 Fuel Oil Usage: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	No. 2 Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Gallons consumed per any consecutive 12-month period shall be calculated as the sum of the gallons consumed during any one month added to the sum of the gallons consumed during the preceding 11 months. This procedure will begin with the first full month following the final issuance of the operating permit. This accounting will not include oil consumption during months prior to the approval of the operating permit. The permittee will select the time period for accounting (e.g., fiscal month, calendar month, production month), but once selected, the period must not be changed without prior approval from the NJDEP. [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
13	The permittee shall annually adjust the combustion process as specified at N.J.A.C. 7:27-19.16(a): Inspect burner, and clean or replace necessary components. Inspect flame patterns and the system controlling air-to-fuel ratio and make necessary adjustments to ensure optimum burner efficiency. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of the equipment source operation adjusted pursuant to N.J.A.C. 7:27-19.16(a) shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain 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 pursuant to N.J.A.C. 7:27-19.16(a); (5) a description of any corrective action taken; (6) results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MMBTU); (7) the type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-22.16(o)]	None.
14	Air emissions captured by the No. 11 Paper Machine mist collector hood will pass through the cyclone (CD202) before being exhausted through a stack 79.5 feet above the ground. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	Particulates Control Efficiency \geq 98 % for droplets greater than 500 microns in diameter. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
16	Pressure Drop \geq 3 and Pressure Drop \leq 10 inches w.c.. Pressure drop across the cyclone from operating permit application based on manufacturers specifications. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Air emissions captured by the No. 11 Paper Machine dust collector hood will pass through the CGS multistage venturi scrubbing unit (CD201) before being exhausted through a stack 79.5 feet above the ground. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
18	Flowrate of Scrubbing Medium at Scrubber Inlet ≥ 330 and Flowrate of Scrubbing Medium at Scrubber Inlet ≤ 350 gal/min , including recycle. [N.J.A.C. 7:27-22.16(e)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously while in operation. Manually record each instance when the control device is shut down for maintenance or repair. [N.J.A.C. 7:27-22.16(o)]	None.
19	Pressure Drop Across the Scrubber ≥ 5 and Pressure Drop Across the Scrubber ≤ 15 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously while in operation. Manually record each instance when the control device is shut down for maintenance and repair. [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: U2 No. 10 & 11 Paper Machines & Associated Equipment**Operating Scenario:** OS46 11PM - No. 11 Paper Machine Burner Operating on No. 2 Fuel Oil; Mist Collector

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 30 lb/hr. Maximum hourly emissions of particulates, based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
4	Maximum Gross Heat Input <= 41 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Dryer's rated heat input capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	TSP <= 1.67 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 6.19 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 6.19 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 5.86 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	CO <= 4.44 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	VOC (Total) <= 0.51 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	SO2 <= 8.43 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	No. 2 Fuel Oil Usage <= 200,000 gal/yr. [N.J.A.C. 7:27-22.16(e)]	No. 2 Fuel Oil Usage: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	No. 2 Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Gallons consumed per any consecutive 12-month period shall be calculated as the sum of the gallons consumed during any one month added to the sum of the gallons consumed during the preceding 11 months. This procedure will begin with the first full month following the final issuance of the operating permit. This accounting will not include oil consumption during months prior to the approval of the operating permit. The permittee will select the time period for accounting (e.g., fiscal month, calendar month, production month), but once selected, the period must not be changed without prior approval from the NJDEP. [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
13	The permittee shall annually adjust the combustion process as specified at N.J.A.C. 7:27-19.16(a): Inspect burner, and clean or replace necessary components. Inspect flame patterns and the system controlling air-to-fuel ratio and make necessary adjustments to ensure optimum burner efficiency. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of the equipment source operation adjusted pursuant to N.J.A.C. 7:27-19.16(a) shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain 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 pursuant to N.J.A.C. 7:27-19.16(a); (5) a description of any corrective action taken; (6) results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MMBTU); (7) the type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-22.16(o)]	None.
14	Air emissions captured by the No. 11 Paper Machine mist collector hood will pass through the cyclone (CD202) before being exhausted through a stack 79.5 feet above the ground. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	Particulates Control Efficiency \geq 98 % by the cyclone for droplets greater than 500 microns in diameter. [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
16	Pressure Drop ≥ 3 and Pressure Drop ≤ 10 inches w.c.. Pressure drop across the cyclone from operating permit application based on manufacturers specifications. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
17	Hours of Operation ≤ 240 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event. [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. [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: U2 No. 10 & 11 Paper Machines & Associated Equipment**Operating Scenario:** OS47 11PM - No. 11 Paper Machine Burner Operating on No. 2 Fuel Oil; Dust Collector

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 30 lb/hr. Maximum hourly emissions of particulates, based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
4	Maximum Gross Heat Input <= 41 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Dryer's rated heat input capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	TSP <= 2.16 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 6.68 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 6.68 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 5.86 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	CO <= 4.44 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	VOC (Total) <= 0.51 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	SO2 <= 8.43 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	No. 2 Fuel Oil Usage <= 200,000 gal/yr. [N.J.A.C. 7:27-22.16(e)]	No. 2 Fuel Oil Usage: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	No. 2 Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Gallons consumed per any consecutive 12-month period shall be calculated as the sum of the gallons consumed during any one month added to the sum of the gallons consumed during the preceding 11 months. This procedure will begin with the first full month following the final issuance of the operating permit. This accounting will not include oil consumption during months prior to the approval of the operating permit. The permittee will select the time period for accounting (e.g., fiscal month, calendar month, production month), but once selected, the period must not be changed without prior approval from the NJDEP. [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
13	The permittee shall annually adjust the combustion process as specified at N.J.A.C. 7:27-19.16(a): Inspect burner, and clean or replace necessary components. Inspect flame patterns and the system controlling air-to-fuel ratio and make necessary adjustments to ensure optimum burner efficiency. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of the equipment source operation adjusted pursuant to N.J.A.C. 7:27-19.16(a) shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain 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 NO _x and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; (4) the concentration of O ₂ (in percent dry basis) at which the CO and NO _x concentrations were measured pursuant to N.J.A.C. 7:27-19.16(a); (5) a description of any corrective action taken; (6) results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MMBTU); (7) the type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-22.16(o)]	None.
14	Air emissions captured by the No. 11 Paper Machine dust collector hood will pass through the CGS multistage venturi scrubbing unit (CD201) before being exhausted through a stack 79.5 feet above the ground. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	Flowrate of Scrubbing Medium at Scrubber Inlet \geq 330 and Flowrate of Scrubbing Medium at Scrubber Inlet \leq 350 gal/min , including recycle. [N.J.A.C. 7:27-22.16(e)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(e)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously while in operation. Manually record each instance when the control device is shut down for maintenance or repair. [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
16	Pressure Drop Across the Scrubber ≥ 5 and Pressure Drop Across the Scrubber ≤ 15 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously while in operation. Manually record each instance when the control device is shut down for maintenance and repair. [N.J.A.C. 7:27-22.16(o)]	None.
17	Hours of Operation ≤ 240 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event. [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. [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: U9 Fiber Division Process Equipment**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	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	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	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	VOC (Total) <= 1.242 tons/yr. Maximum annual emissions of volatile organic compounds based on 640 tons/day process rate and 8760 hours of operation per year. Applies to OS5 only, all other operating scenarios are below reporting threshold. From BOP170002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	For wet end operations, process materials are limited to paper, pulp, water, and additives to the paper-making process. The combined VOC content of total process materials feed input is <= 0.01% by weight, and contains acetaldehyde, acrylamide, acrylic acid, aniline, benzene, bromoform, carbon disulfide, dichloroethyl ether, diethanolamine, diethyl sulfate, (1,4-)dioxane, epichlorohydrin, ethyl acrylate, ethylene oxide, ethylene thiourea, formaldehyde, hydrogen chloride, methanol, methyl chloride, methyl ethyl ketone, (2-)nitropropane, propylene oxide, toluene, vinyl acetate, xylene, chromium compounds, lead compounds, and nickel compounds at a combined weight percentage of less than 0.01% of the total process materials feed input. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Total Production Rate <= 640 dry tons/day. FD Process -- Maximum daily dry pulp production of the Fiber Division process. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of production records daily 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 daily during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	Total Material Transferred <= 232,320 tons/yr. FD Process -- Maximum annual dry pulp production of the Fiber Division process. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of production records monthly during operation.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: 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: U9 Fiber Division Process Equipment

Operating Scenario: OS1 FD Low Density Pulper (LCON-1), OS2 FD Low Density Pulper (LCON-2), OS48 FD Reject Sorter #1, OS49 FD Reject Sorter #2, OS50 FD Select Purge #1, OS51 FD Select Purge #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 11 lb/hr. The combined total of particulate emissions for emission points PT901-PT903 (operating scenarios OS1-OS2, OS48-OS51), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP < 0.05 lb/hr. Particulate emissions from each of these sources are below reporting threshold, as submitted in operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 0.05 lb/hr. Emissions of volatile organic compounds from each of these sources are below reporting threshold, as submitted in operating permit application. [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: U9 Fiber Division Process Equipment

Operating Scenario: OS3 FD Dump Chest, OS16 FD Voith Screens Reject Tank #1, OS17 FD Voith Screens Reject Tank #2, OS53 FD Pulper No. 4, OS57 FD Tertiary Fine Screens Reject Chest #3

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 1.3 lb/hr. The combined total of particulate emissions for emission points PT904-PT905 (operating scenarios OS3, OS16, OS17, OS53, OS57), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP $<$ 0.05 lb/hr. Particulate emissions from each of these sources are below reporting threshold, as submitted in operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) \leq 0.05 lb/hr. Emissions of volatile organic compounds from each of these sources are below reporting threshold, as submitted in operating permit application. [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: U9 Fiber Division Process Equipment

Operating Scenario: OS5 FD Vortrap Chest

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.283 lb/hr. Maximum hourly emissions of volatile organic compounds from operating permit modification application (BOP170002) based on 640 tons/day process rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Particulate Emissions <= 20 lb/hr. The combined total of particulate emissions for emission points PT906-PT910 (operating scenarios OS5-OS7, OS18-OS20, OS35-OS37, OS55-OS56), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
3	TSP < 0.05 lb/hr. Particulate emissions from each operating scenario in this emission unit are below reporting threshold, as submitted in operating permit application. [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: U9 Fiber Division Process Equipment

Operating Scenario: OS6 FD Primary Washing (CW-1) Long Bank, OS7 FD Primary Washing (CW-1) Short Bank, OS18 FD Secondary Washing (CW-2) Long Bank, OS19 FD Secondary Washing (CW-2) Short Bank, OS20 FD Kettle (STC-4), OS35 FD Washing (CW-3) Short Bank #1, OS36 FD Washing (CW-3) Short Bank #2, OS37 FD Washing (CW-3) Short Bank #3, OS55 FD Clafin Chest, OS56 FD Coarse Rejects Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 20 lb/hr. The combined total of particulate emissions for emission points PT906-PT910 (operating scenarios OS5-OS7, OS18-OS20, OS35-OS37, OS55-OS56), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP $<$ 0.05 lb/hr. Particulate emissions from each operating scenario in this emission unit are below reporting threshold, as submitted in operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) $<$ 0.05 lb/hr. Emissions of volatile organic compounds from each operating scenario in this emission unit EXCEPT OPERATING SCENARIO 5 are below reporting threshold, as submitted in operating permit application. [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: U9 Fiber Division Process Equipment

Operating Scenario: OS8 FD Primary Bauer Cleaner, OS9 FD Bauer Accepts Chest, OS10 FD Bauer Rejects Chest, OS14 FD 4th Stage Bauer Rejects Chest, OS15 FD Common Reject Test, OS38 FD Sidehill Washer, OS39 FD Brown Stock Chest, OS45 FD Seal Pit #1, OS46 FD Seal Pit #2, OS47 FD Seal Pit #3

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 6.5 lb/hr. The combined total of particulate emissions for emission points PT911-PT912 (operating scenarios OS8-OS15, OS38-OS39, OS45-OS47), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP < 0.05 lb/hr. Particulate emissions from each operating scenario in this emission unit are below reporting threshold, as submitted in operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) < 0.05 lb/hr. Emissions of volatile organic compounds from each operating scenario in this emission unit EXCEPT OPERATING SCENARIO 5 are below reporting threshold, as submitted in operating permit application. [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: U9 Fiber Division Process Equipment

Operating Scenario: OS21 FD Dewatering Screw Press, OS22 FD Vertical Screw Press #1, OS23 FD Vertical Screw Press #2, OS24 FD Vertical Screw Press #3

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 3.8 lb/hr. The combined total of particulate emissions for emission points PT913-PT916 (operating scenarios OS21-OS24), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP < 0.05 lb/hr. Particulate emissions from each operating scenario in this emission unit are below reporting threshold, as submitted in operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) < 0.05 lb/hr. Emissions of volatile organic compounds from each operating scenario in this emission unit EXCEPT OPERATING SCENARIO 5 are below reporting threshold, as submitted in operating permit application. [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: U9 Fiber Division Process Equipment**Operating Scenario:** OS31 FD EW Cell #1 - Stage #1, OS32 FD EW Cell #1 - Stage #2, OS33 FD EW Cell #2 - Stage #1, OS34 FD EW Cell #2 - Stage #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 2.2 lb/hr. The combined total of particulate emissions for emission points PT919-PT920 (operating scenarios OS31-OS34), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP $<$ 0.05 lb/hr. Particulate emissions from each operating scenario in this emission unit are below reporting threshold, as submitted in operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) $<$ 0.05 lb/hr. Emissions of volatile organic compounds from each operating scenario in this emission unit EXCEPT OPERATING SCENARIO 5 are below reporting threshold, as submitted in operating permit application. [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: U9 Fiber Division Process Equipment

Operating Scenario: OS40 FD Caustic Washer #1 (W-1), OS41 FD Caustic Tower #2 (T-2), OS42 FD Caustic Washer #2 (W-2), OS43 FD Hypochlorite Tower #3 (T-3), OS44 FD Hypochlorite Washer #3 (W-3)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 0.5 lb/hr. The total of particulate emissions for emission point PT921 (operating scenarios OS40-OS44), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP < 0.05 lb/hr. Particulate emissions from each operating scenario in this emission unit are below reporting threshold, as submitted in operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) < 0.05 lb/hr. Emissions of volatile organic compounds from each operating scenario in this emission unit EXCEPT OPERATING SCENARIO 5 are below reporting threshold, as submitted in operating permit application. [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: U9 Fiber Division Process Equipment**Operating Scenario:** OS52 FD Trash Compactor

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr. The total of particulate emissions for emission point PT924, based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP < 0.05 lb/hr. Particulate emissions from each operating scenario in this emission unit are below reporting threshold, as submitted in operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) < 0.05 lb/hr. Emissions of volatile organic compounds from each operating scenario in this emission unit EXCEPT OPERATING SCENARIO 5 are below reporting threshold, as submitted in operating permit application. [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: U9 Fiber Division Process Equipment**Operating Scenario:** OS54 FD Dump Chest

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 5 lb/hr. The combined total of particulate emissions for emission points PT922-PT923 (operating scenarios OS4 & OS54), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP < 0.05 lb/hr. Particulate emissions from each operating scenario in this emission unit are below reporting threshold, as submitted in operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) < 0.05 lb/hr. Emissions of volatile organic compounds from each operating scenario in this emission unit EXCEPT OPERATING SCENARIO 5 are below reporting threshold, as submitted in operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U15 Process Tank for Paper Slush Feedstock

Operating Scenario: OS Summary

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	VOC (Total) < 0.05 lb/hr. Emissions of volatile organic compounds from this emission unit are below the reporting threshold specified in the appendix of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	For wet end operations, process materials are limited to paper, pulp, water, and additives to the paper-making process. The combined VOC content of total process materials feed input is <= 0.01% by weight, and contains acetaldehyde, acrylamide, acrylic acid, aniline, benzene, bromoform, carbon disulfide, dichloroethyl ether, diethanolamine, diethyl sulfate, (1,4-)dioxane, epichlorohydrin, ethyl acrylate, ethylene oxide, ethylene thiourea, formaldehyde, hydrogen chloride, methanol, methyl chloride, methyl ethyl ketone, (2-)nitropropane, propylene oxide, toluene, vinyl acetate, xylene, chromium compounds, lead compounds, and nickel compounds at a combined weight percentage of less than 0.01% of the total process materials feed input. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Design Fill Rate <= 1,600 gal/min. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain documentation and/or calculations sufficient to demonstrate that the maximum fill rate of the tank will not be exceeded.[N.J.A.C. 7:27-22.16(o)].	None.
5	Total Material Transferred <= 206,910 tons/yr. Maximum dry pulp throughput of the slush tank. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of production records each month during operation.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain monthly production records and keep a running total of the yearly production to-date. [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: U22 Soundview Paper Residuals Belt Presses**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 29 lb/hr for the combined total of all exhaust fans (PT2201 - PT2209), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	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	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	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	TSP < 0.05 lb/hr. Emissions of particulates from all operating scenarios in this source operation are below the reporting threshold specified in the appendix of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	VOC (Total) <= 0.05 lb/hr. Emissions of volatile organic compounds from all operating scenarios in this source operation are below the reporting threshold specified in the appendix of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Process materials are limited to paper, clay, and water-based ink/dye/adhesive with a combined raw material VOC content (including paper) of <= 0.01% and containing acetaldehyde, acrylamide, acrylic acid, aniline, benzene, bromoform, carbon disulfide, dichloroethyl ether, diethanolamine, diethyl sulfate, dioxane (1, 4), epichlorohydrin, ethyl acrylate, ethylene oxide, ethylene thiourea, formaldehyde, hydrogen chloride, methyl chloride, methanol, methyl ethyl ketone, nitropropane (2-), propylene oxide, toluene, and xylene at a combined weight percentage of less than 0.01% (including paper). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Total Material Transferred <= 35,000 lb/hr of wet Soundview Paper Residuals material. Maximum hourly process rate of the equipment in this emission unit. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by documentation of construction once initially. Maintain records of the maximum hourly feed rate of the conveyor bridge of emission unit U23 (as described in Subject Item U23 of the Facility Specific Requirements). [Since the equipment in this emission unit is operated in series with that in emission unit U23, the maximum feed rate of the equipment in emission unit U23 limits the throughput of the equipment in this emission unit as well.]. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain documentation of construction and any calculations necessary to demonstrate that the maximum hourly process rate of the belt presses will not be exceeded. [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
9	Total Material Transferred <= 153,300 tons/yr of wet Soundview Paper Residuals material. Maximum annual process rate for the entire belt press system. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of production records of Soundview Paper Residuals shipments (across the truck scale) each month during operation.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by production records each month during operation. Records of Soundview Paper Residuals shipments (across the truck scale) will be maintained, and the yearly production to-date will be calculated and recorded each month during operation in a permanently bound log book or readily accessible electronic data storage system. [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: U23 Conveyor Bridge for Transferring Wet Soundview Paper Residuals to Bldg. 43

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	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	VOC (Total) \leq 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. The following shall be recorded with the information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. The maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used for each process. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under operating conditions. The records shall be maintained for a period of no less than five years and make those records available upon request of the Department or EPA. [N.J.A.C. 7:27-16.16(g)] and.[N.J.A.C. 7:27-16.22(a)].	None.
5	TSP $<$ 0.05 lb/hr. Particulate emissions from this emission unit are below the reporting threshold specified in N.J.A.C. 7:27-22. [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	VOC (Total) <= 0.05 lb/hr. Emissions of volatile organic compounds from this emission unit are below the reporting threshold specified in the appendix of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Process materials are limited to wet Soundview Paper Residuals, clay, and paper. Soundview Paper Residuals contains impurities consisting of VOC and various HAPs, but the concentration of these impurities is typically <= 0.01% by weight based on 12 monthly samples in 2006. [N.J.A.C. 7:27-22.16(a)]	Monitored by product sampling (provide description) quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year to determine the VOC and HAP content of the material (percentage by weight). [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. Maintain records documenting when, how, and by whom the sample was obtained and analyzed, and the results of the analysis. Documented results shall be sufficient to demonstrate that the product composition meets the limits indicated in the applicable requirement. [N.J.A.C. 7:27-22.16(o)]	None.
8	Total Material Transferred <= 35,000 lb/hr of wet Soundview Paper Residuals material. Maximum hourly process rate of the equipment in this emission unit, as stated in the preconstruction permit. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by documentation of construction once initially. Documentation shall be readily accessible and made available to representatives of the Department upon request. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain documentation of construction and any calculations necessary to demonstrate that the maximum hourly process rate of the conveyor will not be exceeded. The documents shall demonstrate that the equipment can not exceed the production rate, feed flow rate, and the manufacturer's specifications of the equipment. [N.J.A.C. 7:27-22.16(o)].	None.
9	Total Material Transferred <= 153,300 tons/yr of wet Soundview Paper Residuals material. Maximum annual process rate, based on the hourly limit from the preconstruction permit, and 8760 hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of production records of Soundview Paper Residuals shipments (across the truck scale) each month during operation. [N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by production records each month during operation. Records of Soundview Paper Residuals shipments (across the truck scale) will be maintained, and the yearly production to-date will be calculated and recorded each month during operation in a permanently bound log book or readily accessible electronic data storage system. [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: U40 Fiber Recovery Process Equipment

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.2 lb/hr. The combined total of particulate emissions for the exhaust fans servicing the equipment in operating scenarios OS1, OS2, OS3, & OS7 (emission points PT4001 & PT4002), based on 0.02 grains per SCF. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Particulate Emissions <= 1.5 lb/hr. The combined total of particulate emissions for the exhaust fans servicing the equipment in operating scenarios OS4-OS6, OS8-OS11, & OS13 (emission points PT4003 - PT4011), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
3	Particulate Emissions <= 1.5 lb/hr. Total particulate emissions for the exhaust fan servicing the equipment in operating scenario OS12 (emission point PT4012), based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)] MOST STRINGENT.	None.	None.	None.
4	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
5	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	<p>Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c):</p> <ol style="list-style-type: none"> 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. <p>The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used.</p> <p>or</p> <p>Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].</p>	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	VOC (Total) < 0.05 lb/hr. Emissions of volatile organic compounds from each operating scenario in this emission unit are below the reporting threshold specified in the appendix of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	TSP < 0.05 lb/hr. Emissions of particulates from each operating scenario in this emission unit are below the reporting threshold specified in the appendix of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	For wet end operations, process materials are limited to paper, pulp, water, and additives to the paper-making process. The combined VOC content of total process materials feed input is <= 0.01% by weight, and contains acetaldehyde, acrylamide, acrylic acid, aniline, benzene, bromoform, carbon disulfide, dichloroethyl ether, diethanolamine, diethyl sulfate, (1,4-)dioxane, epichlorohydrin, ethyl acrylate, ethylene oxide, ethylene thiourea, formaldehyde, hydrogen chloride, methanol, methyl chloride, methyl ethyl ketone, (2-)nitropropane, propylene oxide, toluene, vinyl acetate, xylene, chromium compounds, lead compounds, and nickel compounds at a combined weight percentage of less than 0.01% of the total process materials feed input. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	Flowrate <= 4,930 gal/min. Maximum flowrate of material through the fiber recovery equipment of this emission unit (E4001-E4007). [N.J.A.C. 7:27-22.16(a)]	Flowrate: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
11	Flowrate <= 4,920 gal/min. Maximum flowrate of material through the 10PM Krofta and 10PM Floatate Tank of this emission unit (E4008 & E4009). [N.J.A.C. 7:27-22.16(e)]	Flowrate: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Flowrate <= 6,330 gal/min. Maximum flowrate of material through the fiber divisions equipment of this emission unit (E4010-E4013). [N.J.A.C. 7:27-22.16(e)]	Flowrate: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
13	Total Material Transferred <= 90,750 tons/yr of recovered paper fibers. Maximum amount of material processed by the fiber recovery process (OS1-OS7) of this emission unit. [N.J.A.C. 7:27-22.16(a)]	Other: Fiber production is monitored in the requirements for Fiber Divisions 1 (FD1) of Subject Item U9 of the Facility Specific Requirements.[N.J.A.C. 7:27-22.16(o)].	None.	None.
14	Total Material Transferred <= 153,300 tons/yr of wet Soundview Paper Residuals material. Maximum amount of material processed by the 10 PM Krofta process (OS8-OS9) and FD1 Krofta process (OS10-OS13) of this emission unit. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of production records of Soundview Paper Residuals shipments (across the truck scale) each month during operation.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Records of Soundview Paper Residuals shipments (across the truck scale) shall be maintained, and the yearly production to-date shall be calculated and recorded. [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: U41 #1 Towel Line

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	<p>Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes:</p> <p>(1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following:</p> <p>(1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and ((8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]</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
3	VOC (Total) <= 3.5 lb/hr. Maximum allowable hourly VOC emissions, based on the percent concentration by volume of VOC in the source gas emitted by the source operation and vapor pressure of the VOC. [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Record the following information determined in accordance with the Procedure for Using Table 16A found in N.J.A.C. 7:27-16.16(c): 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; 7. any calculation and test data used to determine the actual emission rate. 8. if the source operation is used for more than one process, the dates the source operation is used for each process. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst-case operating conditions. The records shall be maintained for a period of no less than five years and shall be made available to representatives of the Department or EPA upon request. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
4	TSP <= 0.34 tons/yr (680 lb/yr). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	PM-10 (Total) <= 0.34 tons/yr (680 lb/yr). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.34 tons/yr (680 lb/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Process materials are limited to paper and water-based ink/dye/adhesive with a combined raw material VOC content (including paper) of <= 0.01% containing acetaldehyde, formaldehyde, methanol, and vinyl acetate at a combined weight percentage of less than 0.01% (including paper). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Total Production Rate <= 90 tons/day. Maximum daily production rate of the equipment in this emission unit. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of production records daily 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 daily during operation. [N.J.A.C. 7:27-22.16(o)]	None.
9	Total Production Rate <= 23,625 tons/yr. Maximum annual production rate of equipment. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of production records monthly 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. [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: U41 #1 Towel Line

Operating Scenario: OS1 Towel Line #1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 17 lb/hr for the combined total of all exhaust fans servicing the equipment in this emission unit (PT4101 - PT4105) based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	VOC (Total) <= 0.05 lb/hr. Emissions of volatile organic compounds from this source are below the reporting threshold specified in the appendix of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	TSP <= 0.078 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 0.078 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-2.5 (Total) <= 0.078 lb/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: U44 2 Diesel Sewer Pumps, each 1.24 MMBtu/hr

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 <= 1.49 lb/hr. Maximum hourly emissions of particulates from the combustion of fuel, based on the sum of the heat input rates of the two generators (2.48 MMBTU/hr). [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). 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.
4	VOC (Total) <= 0.05 tons/yr. Maximum annual emissions for the total of the two pumps based on annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 0.6 tons/yr. Maximum annual emissions for the total of the two pumps based on annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 0.13 tons/yr. Maximum annual emissions for the total of the two pumps based on annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO2 <= 0.04 tons/yr. Maximum annual emissions for the total of the two pumps based on annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.042 tons/yr. Maximum annual emissions for the total of the two pumps based on annual fuel usage limit. [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
9	PM-10 (Total) <= 0.042 tons/yr. Maximum annual emissions for the total of the two pumps based on annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-2.5 (Total) <= 0.042 tons/yr. Maximum annual emissions for the total of the two pumps based on annual fuel usage limit. [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: U44 2 Diesel Sewer Pumps, each 1.24 MMBtu/hr

Operating Scenario: OS1 Sewer Pump Generator #1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.45 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 5.47 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 1.18 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	SO2 <= 0.36 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.38 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.38 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.38 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Fuel type is limited to No. 2 fuel oil, diesel or kerosene. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	Fuel Oil Usage <= 1,000 gal/yr per pump. The total amount of fuel fired by each individual pump (including all No.2 fuel oil, diesel, and kerosene fired by the generator). [N.J.A.C. 7:27-22.16(a)]	Fuel Oil Usage: Monitored by fuel usage totalizing meter continuously. A totalizing fuel flow meter shall be used to monitor the amount of fuel burned by each pump. [N.J.A.C. 7:27-22.16(o)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain records of both monthly and annual oil consumption. [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	Maximum Gross Heat Input \leq 1.24 MMBTU/hr (HHV) for each pump. [N.J.A.C. 7:27-22.16(a)]	Other: Fuel burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	Other: The Permittee shall retain on site (for the life of the generator) the maximum BTU rating (maximum gross heat input). Records acceptable to the Department are generator plate ratings, manufacturer's specifications, or engineering calculations.[N.J.A.C. 7:27-22.16(e)].	None.

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

Emission Unit: U44 2 Diesel Sewer Pumps, each 1.24 MMBtu/hr

Operating Scenario: OS2 Sewer Pump Generator #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.45 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 5.47 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 1.18 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	SO2 <= 0.36 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.38 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.38 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.38 lb/hr. Maximum hourly emission rate for each of the two pumps. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Fuel type is limited to No. 2 fuel oil, diesel or kerosene. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	Fuel Oil Usage <= 1,000 gal/yr per pump. The total amount of fuel fired by each individual pump (including all No.2 fuel oil, diesel, and kerosene fired by the generator). [N.J.A.C. 7:27-22.16(a)]	Fuel Oil Usage: Monitored by fuel usage totalizing meter continuously. A totalizing fuel flow meter shall be used to monitor the amount of fuel burned by each pump. [N.J.A.C. 7:27-22.16(o)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain records of both monthly and annual oil consumption. [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
10	Maximum Gross Heat Input \leq 1.24 MMBTU/hr (HHV) for each pump. [N.J.A.C. 7:27-22.16(a)]	Other: Fuel burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	Other: The Permittee shall retain on site (for the life of the generator) the maximum BTU rating (maximum gross heat input). Records acceptable to the Department are generator plate ratings, manufacturer's specifications, or engineering calculations.[N.J.A.C. 7:27-22.16(e)].	None.

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

Emission Unit: U47 No.11 Paper Machine Diesel Emergency Generator <= 15 MMBtu/hr (GP EG-A2)

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 <= 1.6 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 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	Generator fuel limited to # 2 fuel oil, diesel fuel, or kerosene [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
5	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <ol style="list-style-type: none"> 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1] 	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information:</p> <ol style="list-style-type: none"> 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. 2. For each time the emergency generator is specifically operated for testing or maintenance: <ol style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 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>The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p>	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
8	Maximum Gross Heat Input <= 2.667 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Engine Rated Capacity. [N.J.A.C. 7:27-22.16(o)].	None.	None.
9	VOC (Total) <= 0.048 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	NOx (Total) <= 0.588 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	CO <= 0.127 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO2 <= 0.039 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 0.041 tons/yr. Annual emission limit based on the permitted hours per year of operation. [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) <= 0.041 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-2.5 (Total) <= 0.041 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Fuel Oil Usage <= 1,000 gal/yr. The total amount of fuel fired (including all No.2 fuel oil, diesel, and kerosene fired by the generator) shall not exceed 1,000 gal/yr, based on limitation chosen in general permit. [N.J.A.C. 7:27-22.16(e)]	Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). A totalizing fuel flow meter shall be used to monitor the amount of fuel burned by the generator. [N.J.A.C. 7:27-22.16(o)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain records of both monthly and annual oil consumption. Gallons per any consecutive 12-month period shall be calculated as the sum of the gallons consumed during any one month added to the sum of the gallons consumed during the preceding 11 months. This procedure shall begin with the first full month following final issuance of the operating permit. The accounting will not include oil consumption during months prior to approval of the operating permit. The permittee will select the time period for accounting, such as fiscal month, calendar month, or production month; however, once selected, the period must not be changed without prior approval from the Department. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190002

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

Emission Unit: U47 No.11 Paper Machine Diesel Emergency Generator <= 15 MMBtu/hr (GP EG-A2)

Operating Scenario: OS1 Emergency Generator for No. 11 Paper Machine

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.96 lb/hr. Maximum hourly emission rate for the PM Emergency Generator. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 11.76 lb/hr. Maximum hourly emission rate for the PM Emergency Generator. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 2.53 lb/hr. Maximum hourly emission rate for the PM Emergency Generator. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	SO2 <= 0.77 lb/hr. Maximum hourly emission rate for the PM Emergency Generator. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.83 lb/hr. Maximum hourly emission rate for the PM Emergency Generator. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.83 lb/hr. Maximum hourly emission rate for the PM Emergency Generator. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.83 lb/hr. Maximum hourly emission rate for the PM Emergency Generator. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Emission Unit: U48 Diesel Fire Pump at Gate #2**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). 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.
3	Generator fuel limited to diesel fuel. [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
4	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <ol style="list-style-type: none"> 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, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu, or 4. To provide power to pump water for fire suppression or protection, or in case of flood, even if there is no power outage and primary source of mechanical energy has not failed. [N.J.A.C. 7:27-22.16(a)] and [N.J.A.C. 7:27-19.1] 	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information:</p> <ol style="list-style-type: none"> 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, or due to a fire or flood. 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. 2. For each time the emergency generator is specifically operated for testing or maintenance: <ol style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 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>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.

BOP190002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<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. 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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
7	VOC (Total) <= 0.07 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 0.85 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO <= 0.18 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	SO2 <= 0.06 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 0.06 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-10 (Total) <= 0.06 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	PM-2.5 (Total) <= 0.06 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190002

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

Emission Unit: U48 Diesel Fire Pump at Gate #2

Operating Scenario: OS1 Gate #2 Fire Pump

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.43 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 <= 2.38 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
3	TSP <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-2.5 (Total) <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	VOC (Total) <= 0.83 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	CO <= 2.26 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	SO2 <= 0.69 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	NOx (Total) <= 10.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

BOP190002

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

Emission Unit: U60 300,000 Gallon ULSD Tank

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank content limited to ultra low sulfur distillate (ULSD) fuel oil. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Total Throughput <= 16.87 MMgal/yr. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by review of fuel delivery records per delivery. [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 maintain records of ULSD delivered during each calendar month and during each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015 % by weight). [N.J.A.C. 7:27-9.2(a)] and. [N.J.A.C. 7:27-22.16(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	VOC (Total) <= 0.209 tons/yr. Based on a throughput of 16.87 MMgal/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): MARCAL MANUFACTURING LLC

Facility ID (AIMS): 02102

Street ONE MARKET STREET
Address: ELMWOOD PARK, NJ 07407

Mailing ONE MARKET STREET
Address: ELMWOOD PARK, NJ 07407

County: Bergen
Location Exit 61 off Route 80 to Market Street.
Description:

State Plane Coordinates:	
X-Coordinate:	594,704
Y-Coordinate:	754,096
Units:	New Jersey State Plane 8
Datum:	NAD83
Source Org.:	Other/Unknown
Source Type:	Other/Unknown

Industry:	
Primary SIC:	2676
Secondary SIC:	
NAICS:	322291

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: Marcal Manufacturing, LLC

Org. Type: Corporation

Name: Michael Breen

NJ EIN: 26223070800

Title: Director of Environmental

Phone: (201) 294-9269 x

Mailing Address: One Market Street

Fax: () - x

Elmwood Park, NJ 07407

Other: () - x

Type: Mobile

Email: MBreen@marcalpaper.com

Contact Type: BOP - Operating Permits

Organization: Marcal Manufacturing, LLC

Org. Type: Corporation

Name: Michael Breen

NJ EIN: 26223070800

Title: Director of Environmental

Phone: (201) 294-9269 x

Mailing Address: One Market Street

Fax: () - x

Elmwood Park, NJ 07407

Other: () - x

Type: Mobile

Email: MBreen@marcalpaper.com

Contact Type: Consultant

Organization: Trinity Consultants

Org. Type: Corporation

Name: Joseph Kwiatkowski

NJ EIN: 00000000000

Title: Managing Consultant

Phone: (609) 318-5500 x

Mailing Address: 15 Roszel Road

Fax: () - x

Suite 105

Other: () - x

Princeton, NJ 08540

Type:

Email: jkwiatkowski@trinityconsultants.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Emission Statements

Organization: Marcal Manufacturing, LLC

Org. Type: Corporation

Name: Michael Breen

NJ EIN: 26223070800

Title: Director of Environmental

Phone: (201) 294-9269 x

Mailing Address: One Market Street

Fax: () - x

Elmwood Park, NJ 07407

Other: () - x

Type: Mobile

Email: MBreen@marcalpaper.com

Contact Type: Environmental Officer

Organization: Marcal Manufacturing, LLC

Org. Type: Corporation

Name: Michael Breen

NJ EIN: 26223070800

Title: Director of Environmental

Phone: (201) 294-9269 x

Mailing Address: One Market Street

Fax: () - x

Elmwood Park, NJ 07407

Other: () - x

Type: Mobile

Email: MBreen@marcalpaper.com

Contact Type: Fees/Billing Contact

Organization: Marcal Manufacturing, LLC

Org. Type: Corporation

Name: Michael Breen

NJ EIN: 26223070800

Title: Director of Environmental

Phone: (201) 294-9269 x

Mailing Address: One Market Street

Fax: () - x

Elmwood Park, NJ 07407

Other: () - x

Type:

Email: MBreen@marcalpaper.com

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

Contact Type: On-Site Manager

Organization: Marcal Manufacturing, LLC

Org. Type: Corporation

Name: Stacy Lee

NJ EIN: 26223070800

Title: Vice President of Operations

Phone: (551) 204-6636 x

Mailing Address: One Market Street

Fax: (201) 796-0470 x

Elmwood Park, NJ 07407

Other: () - x

Type:

Email: slee@marcalpaper.com

Contact Type: Responsible Official

Organization: Marcal Manufacturing, LLC

Org. Type: Corporation

Name: Stacy Lee

NJ EIN: 26223070800

Title: Vice President of Operations

Phone: (551) 204-6636 x

Mailing Address: One Market Street

Fax: (201) 796-0470 x

Elmwood Park, NJ 07407

Other: () - x

Type:

Email: slee@marcalpaper.com

MARCAL MANUFACTURING LLC (02102)
BOP190002

Date: 03/15/2025

New Jersey Department of Environmental Protection
Non-Source Fugitive Emissions

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)								
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG1	HANDLING AND STORAGE OF FINISHED PRODUCTS	WAREHOUSE	0.000	0.000	0.000	0.000	0.500	0.250	0.000	0.00000000	0.000
Total			0.000	0.000	0.000	0.000	0.500	0.250	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)
IS1	Parts Washing Station	Other Equipment	Bldg.43, 2nd Floor	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.100
IS7	8,400 Gallon NaOH Tank	Storage Vessel	Bldg. 47C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS16	Pits #1-5 and Surrounding Open Trenches	Other Equipment	Next to Bldg. 47B	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS19	16,800 Gallon Storage Tank for Sodium Bisulfite Solution	Storage Vessel	Bldg. 47C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS29	500 Gallon Oil Tank	Storage Vessel	Bldg. 47	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS30	250 Gallon Oil Tank	Storage Vessel	Bldg. 47B	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS32	250 Gallon Oil Tank	Storage Vessel	11PM Bldg.	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS35	Additive Storage Tanks Each < 10,000 Gallons	Storage Vessel	Bldg. 7	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS36	Additive Storage Tanks Each < 10,000 Gallons	Storage Vessel	10PM/11PM Bldg.	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS39	Non-Reactive Blending Vessels Each < 1,000 Gallons	Manufacturing and Materials Handling Equipment	10PM/11PM Bldg.	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS40	Non-Reactive Blending Vessels Each > 1,000 Gallons	Manufacturing and Materials Handling Equipment	Bldg. 47C	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS41	Non-Reactive Blending Vessels Each <= 1,000 Gallons	Manufacturing and Materials Handling Equipment	Bldg. 47C	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS42	Non-Reactive Blending Vessels Each < 1,000 Gallons	Manufacturing and Materials Handling Equipment	Bldg. 44	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS47	Hydrogen Peroxide Storage Tank < 10,000 Gallons	Storage Vessel	Alongside Railroad Tracks	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.00000000	0.000
IS50	Climbing Screen (< 50 lb/hr)	Manufacturing and Materials Handling Equipment	Bldg. 47B	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.00000000	0.000
IS53	Additive Storage Tank	Storage Vessel	Bldg. 43	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS54	Bleach Storage Tank	Storage Vessel	Bldg. 44	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.00000000	0.000
IS55	18,000 Gallon Fuel Oil Storage Tank	Storage Vessel	Near Garage	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS56	6,000 Gallon Fuel Oil Tank	Storage Vessel	Near Boiler House, on East side	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS60	Space Heaters (HI < 1.0 MMBtu/hr)	Fuel Combustion Equipment (Other)	Turbine Building (was Elmwood Power)	0.010	0.560	0.140	0.180	0.050	0.090	0.000	0.00000000	0.000
IS61	(1) Emergency Generator ULSD Tank (275 gallons)	Storage Vessel	Chemical Feed House	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS62	(1) Non-contact cooling tower < 50 lb/hr raw materials	Other Equipment	Southeast of 300,000 gallon oil storage tank	0.000	0.000	0.000	0.000	3.010	3.010	0.000	0.00000000	0.000

MARCAL MANUFACTURING LLC (02102)
BOP190002

Date:3/15/2025

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS64	Emergency Generator Cummins C50D6 50 KW	Emergency Generator	East of the 300,000 gallon oil storage tank	0.001	0.022	0.006	0.000	0.002	0.002	0.000	0.00000000	0.000
Total				1.021	0.582	0.146	0.180	3.092	3.132	0.000	0.00000000	0.100

**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
E102	BOILER 12	114 MMBTU/HR BOILER	Boiler	PCP040001		No	10/15/1994	
E103	BOILER 13	147 MMBTU/HR BOILER	Boiler	PCP040001		No	10/15/1994	
E201	10PM Mach	10PM - NO. 10 PAPER MACHINE	Manufacturing and Materials Handling Equipment	PCP040006		No		
E202	10PM Pulper	10PM Pulper	Manufacturing and Materials Handling Equipment	PCP040006		No		
E203	10PM Dump	10PM Dump Chest	Manufacturing and Materials Handling Equipment	PCP040006		No		
E204	10PM De-Ink	10PM De-Ink Chest	Manufacturing and Materials Handling Equipment	PCP040006		No		
E205	10PM Broke	10PM Broke Chest	Manufacturing and Materials Handling Equipment	PCP040006		No		
E206	10PM Mixing	10PM Mixing Chest	Manufacturing and Materials Handling Equipment	PCP040006		No		
E207	10PM BrPulp	10PM Broke Pulper	Manufacturing and Materials Handling Equipment	PCP040006		No		
E208	10PM Chest1	10PM Chest #1	Manufacturing and Materials Handling Equipment	PCP040006		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
E209	10PM Chest2	10PM Chest #2	Manufacturing and Materials Handling Equipment	PCP040006		No		
E210	10PM Stuff	10PM Stuff Box	Manufacturing and Materials Handling Equipment	PCP040006		No		
E211	10PM White	10PM Machine Silo/White Water Chest	Manufacturing and Materials Handling Equipment	PCP040006		No		
E212	10PM Sump	10PM Sump Pit	Manufacturing and Materials Handling Equipment	PCP040006		No		
E213	10PM Krofta	10PM Krofta	Manufacturing and Materials Handling Equipment	PCP090004		No		
E214	10PM Burner	10PM Burner	Fuel Combustion Equipment (Other)	PCP040006		No		
E215	10PM AES #1	10PM AES Strainer #1	Manufacturing and Materials Handling Equipment	BOP100001		No		
E216	10PM AES #2	10PM AES Strainer #2	Manufacturing and Materials Handling Equipment	BOP100001		No		
E221	11PM Mach	11PM - NO. 11 PAPER MACHINE	Manufacturing and Materials Handling Equipment	PCP040006		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
E222	11PM De-Ink	11PM De-Ink Chest	Manufacturing and Materials Handling Equipment	PCP040006		No		
E223	11PM BrPulp	11PM Broke Pulper	Manufacturing and Materials Handling Equipment	PCP040006		No		
E224	11PM Broke	11PM Broke Chest	Manufacturing and Materials Handling Equipment	PCP040006		No		
E225	11PM Mixing	11PM Mixing Chest	Manufacturing and Materials Handling Equipment	PCP040006		No		
E226	11PM MachCh	11PM Machine Chest	Manufacturing and Materials Handling Equipment	PCP040006		No		
E227	11PM Stuff	11PM Stuff Box	Manufacturing and Materials Handling Equipment	PCP040006		No		
E228	11PM White	11PM Machine Silo/White Water Chest	Manufacturing and Materials Handling Equipment	PCP040006		No		
E229	11PM Sump	11PM Sump Pit	Manufacturing and Materials Handling Equipment	PCP040006		No		
E230	11PM #11Kro	#11 Krofta	Manufacturing and Materials Handling Equipment	PCP040006		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
E231	11PM Float	11PM Floatate Tank	Manufacturing and Materials Handling Equipment	PCP040006		No		
E232	11PM Burner	11PM Burner	Fuel Combustion Equipment (Other)	PCP040006		No		
E233	AES #1	AES Strainer #1	Manufacturing and Materials Handling Equipment			No		
E234	AES #2	AES Strainer #2	Manufacturing and Materials Handling Equipment			No		
E901	FD LCON-1	FD Low Density Pulper (LCON-1)	Manufacturing and Materials Handling Equipment	BOP080003		No		
E902	FD LCON-2	FD Low Density Pulper (LCON-2)	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E903	FD Dump	FD Dump Chest	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E905	FD Vortrap	FD Vortrap Chest	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E906	FD CW-1Long	FD Primary Washing (CW-1) Long Bank	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		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
E907	FD CW-1Shor	FD Primary Washing (CW-1) Short Bank	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E908	FD Bauer Pr	FD Primary Bauer Cleaner	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E909	FD Bauer Ac	FD Bauer Accepts Chest	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E910	FD Bauer Re	FD Bauer Rejects Chest	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E914	FD 4th Rej	FD 4th Stage Bauer Rejects Chest	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E915	FD Common	FD Common Reject Chest	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E916	FD Voith#1	FD Voith Screens Reject Tank #1	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E917	FD Voith#2	FD Voith Screens Reject Tank #2	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E918	FD CW-2Long	FD Secondary Washing (CW-2) Long Bank	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		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
E919	FD CW-2Shor	FD Secondary Washing (CW-2) Short Bank	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E920	FD Kettle	FD Kettle (STC-4)	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E921	FD Dewa	FD Dewatering Screw Press	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E922	FD Press#1	FD Vertical Screw Press #1	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E923	FD Press#2	FD Vertical Screw Press #2	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E924	FD Press#3	FD Vertical Screw Press #3 (Spare)	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E931	FD EW C1S1	FD EW Cell #1 - Stage #1	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E932	FD EW C1S2	FD EW Cell #1 - Stage #2	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E933	FD EW C2S1	FD EW Cell #2 - Stage #1	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		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
E934	FD EW C2S2	FD EW Cell #2 - Stage #2	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E935	FD CW-3Sho1	FD Washing (CW-3) Short Bank #1	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E936	FD CW-3Sho2	FD Washing (CW-3) Short Bank #2	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E937	FD CW-3Sho3	FD Washing (CW-3) Short Bank #3	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E938	FD Sidehill	FD Sidehill Washer	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E939	FD Stock	FD Brown Stock Chest	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E940	FD Washer#1	FD Caustic Washer #1 (W-1)	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E941	FD Tower#2	FD Caustic Tower #2 (T-2)	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E942	FD Washer#2	FD Caustic Washer #2 (W-2)	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		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
E943	FD Tower#3	FD Hypochlorite Tower #3 (T-3)	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E944	FD Washer#3	FD Hypochlorite Washer #3 (W-3)	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E945	FD Seal #1	FD Seal Pit #1	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E946	FD Seal #2	FD Seal Pit #2	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E947	FD Seal #3	FD Seal Pit #3	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E948	FD Reject#1	FD Reject Sorter #1	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E949	FD Reject#2	FD Reject Sorter #2	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E950	FD Select#1	FD Select Purge #1	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E951	FD Select#2	FD Select Purge #2	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		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
E952	FD Compact	FD Trash Compactor	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E953	FD Pulper	FD Pulper No. 4	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E954	FD Dump	FD Dump Chest	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E955	FD Clafin	FD Clafin Chest	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E956	FD Coarse	FD Coarse Rejects Tank	Manufacturing and Materials Handling Equipment	PCP040005 BOP090003		No		
E957	FD Tert Rej	FD Tertiary Fine Screens Rejects Chest #3	Manufacturing and Materials Handling Equipment					
E1501	SLUSH TANK	PROCESS FEED VESSEL FOR PAPER SLUSH	Storage Vessel	P1968	7/1/1955	Yes		
E2201	Belt Press 1	Belt Press #1	Manufacturing and Materials Handling Equipment	PCP050007	7/1/1991	No	11/7/2001	
E2202	Belt Press 2	Belt Press #2	Manufacturing and Materials Handling Equipment	PCP050007	7/1/1991	No	11/7/2001	

**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
E2203	Belt Press 3	Belt Press #3	Manufacturing and Materials Handling Equipment	PCP050007	7/1/1991	No	11/7/2001	
E2204	Belt Press 4	Belt Press #4	Manufacturing and Materials Handling Equipment	PCP050007	8/1/1992	No	11/7/2001	
E2205	Belt Press 5	Belt Press #5	Manufacturing and Materials Handling Equipment	PCP050007	8/1/1992	No	11/7/2001	
E2206	Belt Press 6	Belt Press #6	Manufacturing and Materials Handling Equipment	PCP050007	1/1/1995	No	11/7/2001	
E2207	Belt Press 7	Belt Press #7	Manufacturing and Materials Handling Equipment	PCP050007	1/1/1995	No	11/7/2001	
E2301	PIPE BRIDGE	KAOFIN CONVEYING EQUIPMENT BETWEEN CONTRARIES BUILDING AND KAOFIN BUILDING	Manufacturing and Materials Handling Equipment	PCP010004	11/1/1996	No		
E2302	Screw Press	Kaofin Conveying Equipment Located Within Kaofin Building	Manufacturing and Materials Handling Equipment		4/1/2006	No		
E2303	White Tank	Open Bulk Storage and Loading Area for Kaofin Product	Manufacturing and Materials Handling Equipment	PCP010008	7/1/1960	No	7/1/1992	

**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
E4001	FR CW-5	FR CW-5 Washer	Manufacturing and Materials Handling Equipment	PCP040004		No		
E4002	FR CW-6	FR CW-6 Washer	Manufacturing and Materials Handling Equipment	PCP040004		No		
E4003	FR Float	FR Floatation Cell	Manufacturing and Materials Handling Equipment	PCP040004		No		
E4004	FR Surge S	FR Surge Tank Stock Side	Manufacturing and Materials Handling Equipment	PCP040004		No		
E4005	FR Surge Wt	FR Surge Tank Water Side	Manufacturing and Materials Handling Equipment	PCP040004		No		
E4006	FR Head Box	FR Rejects Sorter Head Box	Manufacturing and Materials Handling Equipment	PCP040004		No		
E4007	FR Sorter#3	FR Rejects Sorter #3	Manufacturing and Materials Handling Equipment	PCP040004		No		
E4008	FR Krofta	Fiber Recovery Krofta	Manufacturing and Materials Handling Equipment	PCP090004		No		
E4009	FR Float	Fiber Recovery Floatate Tank	Manufacturing and Materials Handling Equipment	PCP090004		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
E4010	FD1 Krofta	FD1 De-Ink Krofta	Manufacturing and Materials Handling Equipment	PCP090004		No		
E4011	FD1 Floatate	FD1 Floatate Tank	Manufacturing and Materials Handling Equipment	PCP040004		No		
E4012	FD1 Strainer	FD1 Strainer	Manufacturing and Materials Handling Equipment	PCP040004		No		
E4013	FD1 Str Tank	FD1 Strained Water Tank	Manufacturing and Materials Handling Equipment	PCP040004		No		
E4101	Towel #1 Lin	Towel #1 Converting Line (Rewinding, Cutting, Packaging) Producing Paper Towels	Manufacturing and Materials Handling Equipment	PCP050006	6/1/1999	No		
E4401	Sewer Pump 1	Sewer Pump Generator #1	Stationary Reciprocating Engine	BOP090003	6/3/1991	No		
E4501	Sewer Pump 2	Sewer Pump Generator #2	Stationary Reciprocating Engine	BOP090003	5/26/1992	No		
E4701	11PM Gen	11 PM Generator	GP-Emergency Generator	GEN050005	7/1/1998	No		
E4801	Gate #2 Pump	Gate #2 Fire Pump	Fuel Combustion Equipment (Other)	PCP050008	6/17/1986	No		
E6000	300,000 Tank	300,000 gallon Storage Tank for Distillate Fuel Oil	Storage Vessel	Transferred from Elmwood Park Power	4/24/1987	No		

02102 MARCAL MANUFACTURING LLC BOP190002 E102 (Boiler)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="114.00"/>
Boiler Type:	<input type="text" value="Package"/>
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" value="Other firing method"/>
Description (if other):	<input type="text" value="FACE"/>
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 type="checkbox"/>	Amount (%): <input type="text"/>

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:

The maximum rated gross heat input value provided above applies to natural gas firing operations. For fuel oil-firing operations, the maximum boiler capacity will be derated to 99 MMBtu/hr.

02102 MARCAL MANUFACTURING LLC BOP190002 E103 (Boiler)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="147.00"/>
Boiler Type:	<input type="text" value="Field Erected"/>
Utility Type:	<input type="text" value="Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text"/>
Fuel Firing Method:	<input type="text" value="Other firing method"/>
Description (if other):	<input type="text" value="FACE"/>
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 type="checkbox"/>	Amount (%): <input type="text"/>

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:

The maximum rated gross heat input value provided above applies to natural gas firing operations. For fuel oil-firing operations, the maximum boiler capacity will be derated to 99 MMBtu/hr.

02102 MARCAL MANUFACTURING LLC BOP190002 E201 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	NO. 10 Paper machine
Capacity:	2.63E+04
Units:	other units
Description (if other):	gallons per minute
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E202 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="#10 Pulper"/>
Capacity:	<input type="text" value="2.01E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per 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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E203 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Dump Chest"/>
Capacity:	<input type="text" value="2.01E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E204 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	De-Ink Chest
Capacity:	7.77E+02
Units:	other units
Description (if other):	gallons per minute
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E205 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Broke Chest"/>
Capacity:	<input type="text" value="4.60E+01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E206 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Mixing Chest
Capacity:	1.19E+03
Units:	other units
Description (if other):	gallons per minute
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E207 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Broke Pulper
Capacity:	4.60E+01
Units:	other units
Description (if other):	gallons per minute
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E208 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="PM Chest #1"/>
Capacity:	<input type="text" value="1.19E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E209 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="PM Chest #2"/>
Capacity:	<input type="text" value="1.22E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E210 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Stuff Box"/>
Capacity:	<input type="text" value="1.22E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E211 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Machine Silo/White Water Chest"/>
Capacity:	<input type="text" value="2.33E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E212 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Sump Pit"/>
Capacity:	<input type="text" value="3.96E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E213 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="10PM Krofta"/>
Capacity:	<input type="text" value="4.85E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E214 (Fuel Combustion Equipment (Other))
Print Date: 3/15/2025

Make:	NA
Manufacturer:	Hauck
Model:	NA
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	45.00
Type of Heat Exchange:	Direct
Equipment Type Description:	Two Burner Combustion Hot Air Heater Supplying Heat to Paper Machine Dryer Hood.

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: The 10PM dryer consists of two burners rated at 22.5 MMBtu/hr each, for a total of 45 MMBtu/hr.

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

02102 MARCAL MANUFACTURING LLC BOP190002 E215 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Clarified Water Strainer
Capacity:	3.90E+03
Units:	other units
Description (if other):	gal/min
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E216 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Clarified Water Strainer
Capacity:	3.90E+03
Units:	other units
Description (if other):	gal/min
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E221 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	No. 11 Paper Machine
Capacity:	2.53E+04
Units:	other units
Description (if other):	gallons per minute
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E222 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="De-Ink Chest"/>
Capacity:	<input type="text" value="8.70E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E223 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Broke Pulper"/>
Capacity:	<input type="text" value="3.47E+01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E224 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Broke Chest
Capacity:	3.97E+01
Units:	other units
Description (if other):	gallons per minute
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E225 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Mix Chest"/>
Capacity:	<input type="text" value="9.35E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E226 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Machine Chest"/>
Capacity:	<input type="text" value="1.03E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E227 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Stuff Box"/>
Capacity:	<input type="text" value="1.07E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E228 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Machine Silo/White Water Chest"/>
Capacity:	<input type="text" value="2.40E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E229 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Sump Pit"/>
Capacity:	<input type="text" value="3.87E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E230 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="#11 PM Krofta"/>
Capacity:	<input type="text" value="4.85E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E231 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Floatate Tank"/>
Capacity:	<input type="text" value="1.30E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E232 (Fuel Combustion Equipment (Other))
Print Date: 3/15/2025

Make:	NA
Manufacturer:	Hauck
Model:	NA
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	45.00
Type of Heat Exchange:	Direct
Equipment Type Description:	Two Burner Combustion Hot Air Heater Supplying Heat to Paper Machine Dryer Hood.

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: The 11PM dryer consists of two burners rated at 22.5 MMBtu/hr each, for a total of 45 MMBtu/hr.

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

02102 MARCAL MANUFACTURING LLC BOP190002 E233 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Clarified Water Strainer"/>
Capacity:	<input type="text" value="7.60E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gal/min"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E234 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Clarified Water Strainer
Capacity:	7.60E+03
Units:	other units
Description (if other):	gal/min
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E901 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Low Density Pulper (LCON-1)"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E902 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Low Density Pulper (LCON-2)"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E903 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Dump Chest"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E905 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Vortrap Chest"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E906 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Primary Washing (CW-1) Long Bank"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E907 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Primary Washing (CW-1) Short Bank"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E908 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Primary Bauer Cleaner"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E909 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Bauer Accepts Chest"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E910 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Bauer Rejects Chest"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E914 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Bauer Rejects Chest"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E915 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Common Reject Chest
Capacity:	3.20E+02
Units:	other units
Description (if other):	dry ton / day pulp production
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E916 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Voith Screens Reject Tank #1"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E917 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Voith Screens Reject Tank #2
Capacity:	3.20E+02
Units:	other units
Description (if other):	dry ton / day pulp production
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E918 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Secondary Washing (CW-2) Long Bank"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E919 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Secondary Washing (CW-2) Short Bank"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E920 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Kettle"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E921 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Dewatering Screw Press"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E922 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Vertical Screw Press #1"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E923 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Vertical Screw Press #2"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E924 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Vertical Screw Press #3"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E931 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="EW Cell #1 - Stage #1"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E932 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	EW Cell #1 - Stage #2
Capacity:	3.20E+02
Units:	other units
Description (if other):	dry ton / day pulp production
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E933 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="EW Cell #2 - Stage #1"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E934 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="EW Cell #2 - Stage #2"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E935 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Washing (CW-3) Short Bank #1"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E936 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Washing (CW-3) Short Bank #2"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E937 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Washing (CW-3) Short Bank #3"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E938 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Sidehill Washer"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E939 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Brown Stock Chest"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E940 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Caustic Washer #1 (W-1)
Capacity:	3.20E+02
Units:	other units
Description (if other):	dry ton / day pulp production
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E941 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Caustic Tower #2 (T-2)
Capacity:	3.20E+02
Units:	other units
Description (if other):	dry ton / day pulp production
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E942 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Caustic Washer #2 (W-2)
Capacity:	3.20E+02
Units:	other units
Description (if other):	dry ton / day pulp production
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E943 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Hypochlorite Tower #3 (T-3)"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E944 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Hypochlorite Washer #3 (W-3)"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E945 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Seal Pit #1
Capacity:	3.20E+02
Units:	other units
Description (if other):	dry ton / day pulp production
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E946 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Seal Pit #2
Capacity:	3.20E+02
Units:	other units
Description (if other):	dry ton / day pulp production
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E947 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Seal Pit #3
Capacity:	3.20E+02
Units:	other units
Description (if other):	dry ton / day pulp production
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E948 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Reject Sorter #1"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E949 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Reject Sorter #2
Capacity:	3.20E+02
Units:	other units
Description (if other):	dry ton / day pulp production
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E950 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Select Purge #1"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E951 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Select Purge #2"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E952 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Trash Compactor"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E953 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Pulper No. 4
Capacity:	3.20E+02
Units:	other units
Description (if other):	dry ton / day pulp production
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E954 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Dump Chest"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E955 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Clafin Chest"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E956 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="FD1 Coarse Rejects Tank"/>
Capacity:	<input type="text" value="3.20E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="dry ton / day pulp production"/>
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E957 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Fine Screen Rejects Chest"/>
Capacity:	<input type="text"/>
Units:	<input type="text" value=""/>
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="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E1501 (Storage Vessel)
Print Date: 3/15/2025

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

335,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

BLACK

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):

37.00

Length (ft):

Width (ft):

Diameter (ft):

37.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

500.00

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):

12.50

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

No

Does the storage vessel

02102 MARCAL MANUFACTURING LLC BOP190002 E1501 (Storage Vessel)

Print Date: 3/15/2025

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Belt Press
Capacity:	1.60E+02
Units:	other units
Description (if other):	gal/min
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E2202 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Belt Press
Capacity:	1.60E+02
Units:	other units
Description (if other):	gal/min
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E2203 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Belt Press
Capacity:	1.60E+02
Units:	other units
Description (if other):	gal/min
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E2204 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Belt Press
Capacity:	1.60E+02
Units:	other units
Description (if other):	gal/min
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E2205 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Belt Press
Capacity:	1.60E+02
Units:	other units
Description (if other):	gal/min
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E2206 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Belt Press"/>
Capacity:	<input type="text" value="1.60E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gal/min"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E2207 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Belt Press
Capacity:	1.60E+02
Units:	other units
Description (if other):	gal/min
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E2301 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	CONVEYOR
Capacity:	3.94E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E2302 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Material Handling Equipment
Capacity:	3.50E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	The material handling equipment within the Kaofin building includes a series of belt conveyors, open top silo, and multiple screw presses to remove excess water from the wet Kaofin material.

02102 MARCAL MANUFACTURING LLC BOP190002 E2303 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Loading Area
Capacity:	1.53E+05
Units:	other units
Description (if other):	ton/yr (Kaofin solids)
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E4001 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	CW-5 Washer
Capacity:	2.29E+03
Units:	other units
Description (if other):	gallons per minute
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="CW-6 Washer"/>
Capacity:	<input type="text" value="2.29E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Floatation Cell"/>
Capacity:	<input type="text" value="2.47E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E4004 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

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 Stock Side"/>
Capacity:	<input type="text" value="2.47E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E4005 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

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 Water Side"/>
Capacity:	<input type="text" value="3.50E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E4006 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Rejects Sorter Head Box
Capacity:	3.50E+02
Units:	other units
Description (if other):	gallons per minute
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E4007 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Rejects Sorter #3"/>
Capacity:	<input type="text" value="3.50E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E4008 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Fiber Recovery Krofta"/>
Capacity:	<input type="text" value="5.83E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Fiber Recovery Floatate Tank
Capacity:	9.90E+01
Units:	other units
Description (if other):	gallons per minute
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E4010 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	FD1 De-Ink Krofta
Capacity:	6.43E+03
Units:	other units
Description (if other):	gallons per minute
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	FD1 Floatate Tank
Capacity:	5.00E+02
Units:	other units
Description (if other):	gallons per minute
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Strainer
Capacity:	1.15E+03
Units:	other units
Description (if other):	gallons per minute
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Strained Water Tank"/>
Capacity:	<input type="text" value="1.15E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="gallons per minute"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

02102 MARCAL MANUFACTURING LLC BOP190002 E4101 (Manufacturing and Materials Handling Equipment)
Print Date: 3/15/2025

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Towel #1 Converting Line
Capacity:	9.00E+01
Units:	other units
Description (if other):	tons/day
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:	

02102 MARCAL MANUFACTURING LLC BOP190002 E4401 (Stationary Reciprocating Engine)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="1.24"/>
Class:	<input type="text"/>
Description:	<input type="text"/>
Duty:	<input type="text" value="Standby Power"/>
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="177"/>
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:	

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

02102 MARCAL MANUFACTURING LLC BOP190002 E4501 (Stationary Reciprocating Engine)
Print Date: 3/15/2025

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="1.24"/>
Class:	<input type="text"/>
Description:	<input type="text"/>
Duty:	<input type="text" value="Standby Power"/>
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="177"/>
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:	

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

02102 MARCAL MANUFACTURING LLC BOP190002 E4801 (Fuel Combustion Equipment (Other))
Print Date: 3/15/2025

Make:	Cummins Diesel
Manufacturer:	Cummins Diesel
Model:	NT-855-F3
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	2.38
Type of Heat Exchange:	
Equipment Type Description:	Fire Pump

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.

02102 MARCAL MANUFACTURING LLC BOP190002 E6000 (Storage Vessel)
Print Date: 3/15/2025

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

300,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

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:

Cylindrical

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

Length (ft):

Width (ft):

Diameter (ft):

40.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

300.00

Units:

gal/min

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

Roof

Roof Type:

Vertical fixed roof tank

Roof Height (From Roof
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

Does the storage vessel

02102 MARCAL MANUFACTURING LLC BOP190002 E6000 (Storage Vessel)

Print Date: 3/15/2025

Does the storage vessel
have a Conservation Vent?

Yes ▼

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

No ▼

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

No ▼

Comments:

with pressure vacuum system

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
CD201	#11 PM Dust	Dust Collector for #11 PM	Scrubber (Venturi)	10/30/1998	No		
CD202	#11 PM Mist	Mist Collector for #11 PM	Cyclone	10/30/1998	No		

02102 MARCAL MANUFACTURING LLC BOP190002 CD201 (Scrubber (Venturi))
Print Date: 3/15/2025

Make:	NA
Manufacturer:	Clean Gas Systems, Inc.
Model:	CGS MULTISCRUB, Size 34, Type H
Is the Scrubber Used for Particulate Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Used for Gas Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	330.00
Maximum Operating Liquid Flow Rate (gpm):	350.00
Method of Monitoring Liquid Flow Rate:	Pressure Sensor Level Control
Minimum Operating Gas Flow Rate (acfm):	34,400.00
Maximum Operating Gas Flow Rate (acfm):	34,400.00
Method of Monitoring Gas Flow Rate:	Measured Once Initially based on Damper Settings
Minimum Operating Pressure Drop (in. H2O):	5.00
Maximum Operating Pressure Drop (in. H2O):	15.00
Method of Monitoring Pressure Drop:	Measured Once Initially Based on Damper Settings
Relative Direction of the Gas-Liquid Flow:	<input type="button" value="v"/>
Description:	
Throat Length (in):	31.50
Throat Diameter (in):	52.00
Maximum Inlet Gas Temperature (°F):	100.0
Maximum Outlet Gas Temperature (°F):	80.0
Inlet Particle Grain Loading (gr/dscf):	1.00
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	NA

Have you attached 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

02102 MARCAL MANUFACTURING LLC BOP190002 CD201 (Scrubber (Venturi))
Print Date: 3/15/2025

Comments:

02102 MARCAL MANUFACTURING LLC BOP190002 CD202 (Cyclone)
Print Date: 3/15/2025

Make:	NA
Manufacturer:	Valmet, Inc. - Enerdry Division
Model:	Cyclonic Separator, Size 132
Unit Type:	SN
Description:	
Major Cylinder Diameter, Dc (ft):	11.00
Major Cylinder Length, Lc (ft):	12.08
Gas Outlet Diameter, De (ft):	5.50
Gas Inlet Height, He (ft):	5.79
Gas Inlet Width, Bc (ft):	3.02
Gas Outlet Length, Hc + Sc [usually 5/8 Dc] (ft):	3.02
Cone Length, Zc (ft):	
Dust Outlet, Jc (ft):	
Effective Number of Turns, Ne:	
Inlet Gas Velocity, Vi (ft/min):	3,800.00
True Particle Density (lbs/ft³):	62.40
Average Particle Size (micrometers):	500.00
Gas Temperature (°F):	
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	2
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Visual Determination
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	

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.		
PT101	BOILER STACK	BOILERHOUSE STACK FOR TWO BOILERS	Round	120	180	500	350.0	325.0	375.0	50,940.0	50,940.0	50,940.0	Up	
PT201	10PM VAC PMP	VACUUM PUMP EXHAUST FROM WET END OF NO. 10 PAPER MACHINE	Round	64	65	150	130.0	100.0	150.0	28,000.0	0.0	37,000.0	Up	
PT202	10PM HOOD	DRYER HOOD EXHAUST FROM NO. 10 PAPER MACHINE	Round	127	65	150	144.0	124.0	164.0	35,000.0	0.0	35,000.0	Up	
PT203	10&11PM ROOF	OLD ROOF VENT FAN ON PAPER MACHINE NO. 10 AND 11 BUILDING	Round	36	70	160	100.0	70.0	120.0	5,000.0	0.0	10,000.0	Horizontal	
PT204	10&11PM ROOF	OLD ROOF VENT FAN ON PAPER MACHINE NO. 10 AND 11 BUILDING	Round	36	65	160	100.0	70.0	120.0	20,000.0	0.0	20,000.0	Up	
PT205	10&11PM ROOF	OLD ROOF VENT FAN ON PAPER MACHINE NO. 10 AND 11 BUILDING	Round	36	65	160	100.0	70.0	120.0	20,000.0	0.0	20,000.0	Up	
PT206	10&11PM ROOF	OLD ROOF VENT FAN ON PAPER MACHINE NO. 10 AND 11 BUILDING	Round	36	65	160	100.0	70.0	120.0	20,000.0	0.0	20,000.0	Up	
PT207	10&11PM ROOF	OLD ROOF VENT FAN ON PAPER MACHINE NO. 10 AND 11 BUILDING	Round	36	70	160	100.0	70.0	120.0	7,500.0	0.0	15,000.0	Horizontal	
PT208	10&11PM ROOF	OLD ROOF VENT FAN ON PAPER MACHINE NO. 10 AND 11 BUILDING	Round	36	70	160	100.0	70.0	120.0	7,500.0	0.0	15,000.0	Horizontal	
PT209	10&11PM ROOF	OLD ROOF VENT FAN ON PAPER MACHINE NO. 10 AND 11 BUILDING	Round	36	70	160	100.0	70.0	120.0	7,500.0	0.0	15,000.0	Horizontal	

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.		
PT210	10&11PM ROOF	NEW ROOF VENT FAN ON PAPER MACHINE NO. 10 AND 11 BUILDING	Round	66	65	160	100.0	70.0	120.0	55,000.0	0.0	55,000.0	Up	
PT211	10&11PM ROOF	NEW ROOF VENT FAN ON PAPER MACHINE NO. 10 AND 11 BUILDING	Round	66	65	160	100.0	70.0	120.0	55,000.0	0.0	55,000.0	Up	
PT212	10&11PM ROOF	NEW ROOF VENT FAN ON PAPER MACHINE NO. 10 AND 11 BUILDING	Round	66	65	160	100.0	70.0	120.0	55,000.0	0.0	55,000.0	Up	
PT213	10PM TOP FL.	TOP FLOOR VENT IN PAPER MACHINE NO. 10 AND 11 BUILDING	Round	48	60	160	100.0	70.0	120.0	27,000.0	0.0	27,000.0	Up	
PT214	10PM Pulper	Exhaust Fan by 10PM Pulper	Round	40	30	150	100.0	70.0	120.0	18,000.0	0.0	18,000.0	Horizontal	
PT215	10PM 3rd Flr	Exhaust for 10PM AES Units - 3rd Floor of 10PM Building	Square	43	40	170	100.0	70.0	120.0	500.0	0.0	1,000.0	Horizontal	
PT221	11PM VAC PMP	TOP FLOOR VENT IN PAPER MACHINE NO. 10 AND 11 BUILDING	Round	64	65	300	130.0	120.0	140.0	33,000.0	0.0	41,000.0	Up	
PT222	11PM HOOD	VACUUM PUMP EXHAUST FROM WET END OF NO. 11 PAPER MACHINE	Round	30	65	260	88.0	83.0	93.0	15,850.0	0.0	15,850.0	Up	
PT223	11PM MIST	DRYER HOOD EXHAUST FROM NO. 11 PAPER MACHINE	Round	66	80	300	120.0	110.0	130.0	63,000.0	0.0	63,000.0	Up	
PT224	11PM DUST	EXHAUST FROM MIST COLLECTOR ON NO. 11 PAPER MACHINE	Round	42	78	250	80.0	75.0	85.0	34,400.0	0.0	34,400.0	Up	
PT225	11PM FL. 4	EXHAUST FROM DUST COLLECTOR ON NO. 11 PAPER MACHINE	Round	48	60	160	100.0	70.0	120.0	27,000.0	0.0	27,000.0	Up	

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT901	CORE PRJ BLD	Exhaust Fan Behind Reject Sorter	Square	36	60	70	70.0	30.0	110.0	14,000.0	0.0	14,000.0	Horizontal	
PT902	Paddle EF1	Exhaust Fan #1 Near Paddle Dryer	Rectangle	48	60	70	70.0	30.0	110.0	24,000.0	0.0	24,000.0	Horizontal	
PT903	Paddle EF2	Exhaust Fan #2 Near Paddle Dryer	Rectangle	48	60	70	70.0	30.0	110.0	24,000.0	0.0	24,000.0	Horizontal	
PT904	Pulper EF1	Exhaust Fan #1 Near FD4 Pulper	Round	18	20	230	70.0	30.0	110.0	4,000.0	0.0	4,000.0	Up	
PT905	Pulper EF2	Exhaust Fan #2 Near FD4 Pulper	Round	18	20	230	70.0	30.0	110.0	4,000.0	0.0	4,000.0	Up	
PT906	CW - EF1	CW Exhaust Fan #1	Round	48	30	280	70.0	30.0	110.0	37,000.0	0.0	37,000.0	Up	
PT907	CW - EF2	CW Exhaust Fan #2	Round	48	30	280	70.0	30.0	110.0	37,000.0	0.0	37,000.0	Up	
PT908	CW - EF3	CW Exhaust Fan #3	Round	48	30	280	70.0	30.0	110.0	37,000.0	0.0	37,000.0	Up	
PT909	CW - EF4	CW Exhaust Fan #4	Round	18	30	280	70.0	30.0	110.0	4,000.0	0.0	4,000.0	Up	
PT910	CW - EF5	CW Exhaust Fan #5	Round	18	30	280	70.0	30.0	110.0	4,000.0	0.0	4,000.0	Up	
PT911	Bldg 44-2 E1	Building 44 - 2nd Floor Exhaust #1	Round	48	25	360	70.0	30.0	110.0	24,000.0	0.0	24,000.0	Horizontal	
PT912	Bldg 44-2 E2	Building 44 - 2nd Floor Exhaust #2	Round	36	25	290	70.0	30.0	110.0	14,000.0	0.0	14,000.0	Horizontal	
PT913	Bldg 44-4 EV	Building 44 - 4th Floor Exhaust Vent	Round	48	65	370	70.0	30.0	110.0	1,000.0	0.0	1,000.0	Horizontal	
PT914	Bldg 44-4 E1	Building 44 - 4th Floor Exhaust Fan #1	Round	24	65	370	70.0	30.0	110.0	7,000.0	0.0	7,000.0	Horizontal	
PT915	Bldg 44-4 E2	Building 44 - 4th Floor Exhaust Fan #2	Round	24	65	370	70.0	30.0	110.0	7,000.0	0.0	7,000.0	Horizontal	

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.		
PT916	Bldg 44-4 E3	Building 44 - 4th Floor Exhaust Fan #3	Round	24	65	370	70.0	30.0	110.0	7,000.0	0.0	7,000.0	Horizontal	
PT919	Bldg 44-2CE1	Building 44 - 2nd Floor EW Cell Exhaust #1	Round	24	35	350	70.0	30.0	110.0	6,500.0	0.0	6,500.0	Horizontal	
PT920	Bldg 44-2CE2	Building 44 - 2nd Floor EW Cell Exhaust #2	Round	24	35	35	70.0	30.0	110.0	6,500.0	0.0	6,500.0	Horizontal	
PT921	Bldg 44 WTE	Building 44 - Washer/Tower Exhaust	Round	12	74	300	150.0	140.0	160.0	2,000.0	0.0	2,000.0	Up	
PT922	Bldg 44 WE1	Building 44 - Washer Exhaust #1	Round	30	60	360	70.0	30.0	110.0	14,500.0	0.0	14,500.0	Up	
PT923	Bldg 44 WE2	Building 44 - Washer Exhaust #2	Round	30	60	360	70.0	30.0	110.0	14,500.0	0.0	14,500.0	Up	
PT924	46 OUTSIDE	Trash Compactor Exhaust	Square	36	4	70	70.0	30.0	110.0	1,000.0	0.0	1,000.0	Horizontal	
PT925	Bldg 44 WTE2	Building 44 - Washer/Tower Exhaust #2	Rectangle	48	65	300	70.0	30.0	100.0	25,000.0	0.0	27,000.0	Horizontal	
PT926	Bldg 44 WTE3	Building 44 - Washer/Tower Exhaust #2	Rectangle	48	65	300	70.0	30.0	100.0	25,000.0	0.0	27,000.0	Horizontal	
PT1501	SLUSH TANK	VENT FROM "SLUSH" TANK CONTAINING PAPER SLURRY FEEDSTOCK	Round	4	20	500	72.0	60.0	80.0	1.0	0.0	40.0	Up	
PT2201	Belt Fan #1	Belt Press Fan #1 of 9	Round	48	55	120	70.0	30.0	100.0	19,000.0	0.0	19,000.0	Up	
PT2202	Belt Fan #2	Belt Press Fan #2 of 9	Round	48	55	120	70.0	30.0	100.0	19,000.0	0.0	19,000.0	Up	
PT2203	Belt Fan #3	Belt Press Fan #3 of 9	Round	48	55	120	70.0	30.0	100.0	19,000.0	0.0	19,000.0	Up	
PT2204	Belt Fan #4	Belt Press Fan #4 of 9	Round	48	55	120	70.0	30.0	100.0	19,000.0	0.0	19,000.0	Up	
PT2205	Belt Fan #5	Belt Press Fan #5 of 9	Round	48	55	120	70.0	30.0	100.0	19,000.0	0.0	19,000.0	Up	

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PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT2206	Belt Fan #6	Belt Press Fan #6 of 9	Round	48	55	120	70.0	30.0	100.0	19,000.0	0.0	19,000.0	Up	
PT2207	Belt Fan #7	Belt Press Fan #7 of 9	Round	48	55	120	70.0	30.0	100.0	19,000.0	0.0	19,000.0	Up	
PT2208	Belt Fan #8	Belt Press Fan #8 of 9	Round	18	55	120	70.0	30.0	100.0	19,000.0	0.0	19,000.0	Horizontal	
PT2209	Belt Fan #9	Belt Press Fan #9 of 9	Round	18	55	120	70.0	30.0	100.0	19,000.0	0.0	19,000.0	Horizontal	
PT2301	CONVEY	OPEN SIDES OF CONVEYOR BRIDGE BETWEEN CONTRARIES AND BLDG. 43	Rectangle	100	20	100	72.0	60.0	80.0	0.0	0.0	0.0	Horizontal	
PT2302	White Tank	Open Tank for Kaofin Product Storage and Loading	Round	999	20	100	72.0	32.0	90.0	0.0	0.0	0.0	Up	
PT2303	B43-1	Bldg. 43 - Exhaust #1	Round	54	50	110	70.0	30.0	100.0	33,500.0	19,000.0	48,000.0	Up	
PT2304	B43-2	Bldg. 43 - Exhaust #2	Round	54	50	130	70.0	30.0	100.0	33,500.0	19,000.0	48,000.0	Up	
PT4001	FR Stack 1	Kaofin Building Fiber Recovery Exhaust #1	Square	24	25	220	70.0	30.0	100.0	6,500.0	0.0	6,500.0	Horizontal	
PT4002	FR Stack 2	Kaofin Building Fiber Recovery Exhaust #2	Square	24	25	220	70.0	30.0	100.0	6,500.0	0.0	6,500.0	Horizontal	
PT4003	Kaofin 1	Kaofin Building Exhaust - Vent #1	Round	24	50	300	70.0	30.0	100.0	1,000.0	0.0	2,350.0	Up	
PT4004	Kaofin 2	Kaofin Building Exhaust - Vent #2	Round	24	50	300	70.0	30.0	100.0	1,000.0	0.0	2,350.0	Up	
PT4005	Kaofin 3	Kaofin Building Exhaust - Vent #3	Round	24	50	300	70.0	30.0	100.0	1,000.0	0.0	2,350.0	Up	
PT4006	Kaofin 4	Kaofin Building Exhaust - Vent #4	Round	24	50	300	70.0	30.0	100.0	1,000.0	0.0	2,350.0	Up	
PT4007	Kaofin 5	Kaofin Building Exhaust - Vent #5	Round	24	50	300	70.0	30.0	100.0	1,000.0	0.0	2,350.0	Up	

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PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT4008	Kaofin 6	Kaofin Building Exhaust - Vent #6	Round	24	50	300	70.0	30.0	100.0	1,000.0	0.0	2,350.0	Up	
PT4009	Kaofin 7	Kaofin Building Exhaust - Vent #7	Round	24	50	300	70.0	30.0	100.0	1,000.0	0.0	2,350.0	Up	
PT4010	Kaofin 8	Kaofin Building Exhaust - Vent #8	Round	24	50	300	70.0	30.0	100.0	1,000.0	0.0	2,350.0	Up	
PT4011	Kaofin 9	Kaofin Building Exhaust - Vent #9	Round	24	50	300	70.0	30.0	100.0	1,000.0	0.0	2,350.0	Up	
PT4012	FR Strain	Fiber Recovery Strainer Exhaust	Round	96	10	220	70.0	30.0	100.0	8,600.0	0.0	9,000.0	Up	
PT4101	Towel 1 #1	Roof Fan #1 for Towel Line #1	Round	44	30	195	100.0	70.0	120.0	20,000.0	0.0	20,000.0	Horizontal	
PT4102	Towel 1 #2	Roof Fan #2 for Towel Line #1	Round	44	30	195	100.0	70.0	120.0	20,000.0	0.0	20,000.0	Horizontal	
PT4103	Towel 1 #3	Roof Fan #3 for Towel Line #1	Round	44	30	195	100.0	70.0	120.0	20,000.0	0.0	20,000.0	Horizontal	
PT4104	Towel 1 #4	Roof Fan #4 for Towel Line #1	Round	44	30	195	100.0	70.0	120.0	20,000.0	0.0	20,000.0	Horizontal	
PT4105	Towel 1 #5	Roof Fan #5 for Towel Line #1	Round	44	30	195	100.0	70.0	120.0	20,000.0	0.0	20,000.0	Horizontal	
PT4401	Sewer Pump	Sewer Pump Generator #1 Stack	Round	3	17	300	225.0	200.0	250.0	1,300.0	700.0	1,500.0	Horizontal	
PT4402	Sewer Pump	Sewer Pump Generator #2 Stack	Round	2	35	300	225.0	200.0	250.0	1,300.0	700.0	1,500.0	Down	
PT4701	11 PM Gen	No. 11 Paper Machine Generator Stack	Round	5	9	270	225.0	200.0	250.0	1,300.0	700.0	1,500.0	Up	
PT4801	Gate #2 Pump	Gate #2 Fire Pump Stack	Round	5	23	25	250.0	200.0	1,000.0	1,800.0	1,000.0	2,000.0	Horizontal	
PT6000	300,000 Tank	300,000 gal fuel oil Storage Tank Vent	Round	4	35	30	54.0	0.0	100.0	0.1	0.0	40.1	Up	

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U 1 Boilerhouse Boilers 12 & 13 - 114 and 147 MMBtu/hr (Derated for Oil to 99 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS1	BOILER12/GAS	BOILER NO. 12 OPERATING ON NATURAL GAS	Normal - Steady State	E102		PT101	1-02-006-01	0.0 8,760.0	50,940.0	50,940.0	325.0 375.0
OS2	BOILER12/OIL	BOILER NO. 12 OPERATING ON NO. 2 FUEL OIL	Normal - Steady State	E102		PT101	1-02-005-02	0.0 8,760.0	50,940.0	50,940.0	325.0 375.0
OS3	BOILER13/GAS	BOILER NO. 13 OPERATING ON NATURAL GAS	Normal - Steady State	E103		PT101	1-02-006-01	0.0 8,760.0	50,940.0	50,940.0	325.0 375.0
OS4	BOILER13/OIL	BOILER NO. 13 OPERATING ON NO. 2 FUEL OIL	Normal - Steady State	E103		PT101	1-02-005-02	0.0 8,760.0	50,940.0	50,940.0	325.0 375.0

U 2 #10 & 11 PM No. 10 & 11 Paper Machines & Associated Equipment

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS1	434250	10PM - No. 10 Paper Machine - 45 MMBTU/hr Burner (direct heat exchanger) Operating on Natural Gas	Normal - Steady State	E214		PT202	3-07-012-01	0.0 8,760.0	A	0.0 35,000.0	124.0 164.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS2	10PM Mach FO	10PM - No. 10 Paper Machine - 45 MMBTU/hr Burner (direct heat exchanger) Operating on No. 2 Fuel Oil	Normal - Steady State	E214		PT202	3-07-012-01	0.0 8,760.0	A	0.0 35,000.0	124.0 164.0
OS3	10PM-Vac	10PM - No. 10 Paper Machine Emissions Venting Through Vacuum Pump Exhaust	Normal - Steady State	E201		PT201	3-07-012-01	0.0 8,760.0	A	0.0 37,000.0	100.0 150.0
OS4	10PM-Roof	10PM - No. 10 Paper Machine Emissions Venting Through Roof Vents	Normal - Steady State	E201		PT203 PT204 PT205 PT206 PT207 PT208 PT212	3-07-012-01	0.0 8,760.0	A	0.0 280,000.0	70.0 120.0
OS5	10PM Pulper	10PM Pulper	Normal - Steady State	E202		PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212 PT214	3-07-012-01	0.0 8,760.0	A	0.0 298,000.0	70.0 120.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS6	10PM Dump	10PM Dump Chest	Normal - Steady State	E203		PT203	3-07-012-01	0.0 8,760.0	A	0.0 280,000.0	70.0 120.0
						PT204					
						PT205					
						PT206					
						PT207					
						PT208					
						PT209					
						PT210					
						PT211					
						PT212					
						PT203	3-07-012-01	0.0 8,760.0	A	0.0 280,000.0	70.0 120.0
OS7	10PM De-Ink	10PM De-Ink Chest	Normal - Steady State	E204		PT204					
						PT205					
						PT206					
						PT207					
						PT208					
						PT209					
						PT210					
						PT211					
						PT212					

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS8	10PM Broke	10PM Broke Chest	Normal - Steady State	E205		PT203	3-07-012-01	0.0 8,760.0	A	0.0 280,000.0	70.0 120.0
						PT204					
						PT205					
						PT206					
						PT207					
						PT208					
						PT209					
						PT210					
						PT211					
						PT212					
						PT203	3-07-012-01	0.0 8,760.0	A	0.0 280,000.0	70.0 120.0
OS9	10PM Mixing	10PM Mixing Chest	Normal - Steady State	E206		PT204					
						PT205					
						PT206					
						PT207					
						PT208					
						PT209					
						PT210					
						PT211					
						PT212					

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS10	10PM BrPulp	10PM Broke Pulper	Normal - Steady State	E207		PT203	3-07-012-01	0.0 8,760.0	A	0.0 280,000.0	70.0 120.0
						PT204					
						PT205					
						PT206					
						PT207					
						PT208					
						PT209					
						PT210					
						PT211					
						PT212					
						PT203	3-07-012-01	0.0 8,760.0	A	0.0 280,000.0	70.0 120.0
OS11	10PM Chestl	10PM Chest #1	Normal - Steady State	E208		PT204					
						PT205					
						PT206					
						PT207					
						PT210					
						PT211					
						PT212					

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS12	10PM Chest2	10PM Chest #2	Normal - Steady State	E209		PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212	3-07-012-01	0.0 8,760.0	A	0.0 280,000.0	70.0 120.0
OS13	10PM Stuff	10PM Stuff Box	Normal - Steady State	E210		PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212	3-07-012-01	0.0 8,760.0	A	0.0 280,000.0	70.0 120.0

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U2 #10 & 11 PM No. 10 & 11 Paper Machines & Associated Equipment

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.	Min.	Max.														
OS14	10PM White	10PM Machine Silo/White Water Chest	Normal - Steady State	E211			PT203	3-07-012-01	0.0	8,760.0	A	0.0	280,000.0	70.0	120.0															
							PT204																							
							PT205																							
							PT206																							
							PT207																							
							PT208																							
							PT209																							
							PT210																							
							PT211																							
							PT212																							
							OS15									10PM Sump	10PM Sump Pit	Normal - Steady State	E212			PT203	3-07-012-01	0.0	8,760.0	A	0.0	280,000.0	70.0	120.0
																						PT204								
PT205																														
PT206																														
PT207																														
PT208																														
OS16	10PM #4Kro	#4 Krofta	Normal - Steady State	E213			PT209	3-07-012-01	0.0	8,760.0	A	0.0	27,000.0	70.0	120.0															
							PT210																							
							PT211																							
							PT212																							
							PT213																							

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS17	10PM - Clean	10PM - Cleaning	Maintenance	E201		PT201 PT202 PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212	3-07-012-01	0.0 8,760.0	A	0.0 379,000.0	70.0 164.0
OS21	11PM Mach NG	11PM - No. 11 Paper Machine Burner (direct heat exchanger) Operating on Natural Gas	Normal - Steady State	E232		PT222	3-07-012-01	0.0 240.0	A	0.0 15,850.0	120.0 140.0
OS22	11PM Mach FO	11PM - No. 11 Paper Machine Burner (direct heat exchanger) Operating on No. 2 Fuel Oil	Normal - Steady State	E232		PT222	3-07-012-01	0.0 240.0	A	0.0 15,850.0	120.0 140.0

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OS26	11PM-Roof	11PM - No. 11 Paper Machine Emissions Venting Through Roof Vents and Vacuum Pump Stack	Normal - Steady State	E221		PT203	3-07-012-01	0.0 8,760.0	A	0.0 321,000.0	70.0 140.0
						PT204					
						PT205					
						PT206					
						PT207					
						PT208					
						PT209					
						PT210					
						PT211					
						PT212					
						PT221					
OS27	11PM De-Ink	11PM De-Ink Chest	Normal - Steady State	E222		PT203	3-07-012-01	0.0 8,760.0	A	0.0 321,000.0	70.0 140.0
						PT204					
						PT205					
						PT206					
						PT207					
						PT208					
						PT209					
						PT210					
						PT211					
						PT212					
						PT221					

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS28	11PM BrPulp	11PM Broke Pulper	Normal - Steady State	E223		PT203	3-07-012-01	0.0 8,760.0	A	0.0 321,000.0	70.0 140.0
						PT204					
						PT205					
						PT206					
						PT207					
						PT208					
						PT209					
						PT210					
						PT211					
						PT212					
						PT221					
OS29	11PM Broke	11PM Broke Chest	Normal - Steady State	E224		PT203	3-07-012-01	0.0 8,760.0	A	0.0 321,000.0	70.0 140.0
						PT204					
						PT205					
						PT206					
						PT207					
						PT208					
						PT209					
						PT210					
						PT211					
						PT212					
						PT221					
						PT221					

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS30	11PM Mixing	11PM Mixing Chest	Normal - Steady State	E225		PT203	3-07-012-01	0.0 8,760.0	A	0.0 321,000.0	70.0 140.0
						PT204					
						PT205					
						PT206					
						PT207					
						PT208					
						PT209					
						PT210					
						PT211					
						PT212					
						PT221					
OS31	11PM MachCh	11PM Machine Chest	Normal - Steady State	E226		PT203	3-07-012-01	0.0 8,760.0	A	0.0 321,000.0	70.0 140.0
						PT204					
						PT205					
						PT206					
						PT207					
						PT208					
						PT209					
						PT210					
						PT211					
						PT212					
						PT221					
						PT221					

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS32	11PM Stuff	11PM Stuff Box	Normal - Steady State	E227		PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212 PT221	3-07-012-01	0.0 8,760.0	A	0.0 321,000.0	70.0 140.0
OS33	11PM White	11PM Machine Silo/White Water Chest	Normal - Steady State	E228		PT223	3-07-012-01	0.0 8,760.0	A	0.0 63,000.0	110.0 130.0
OS34	11PM Sump	11PM Sump Pit	Normal - Steady State	E228		PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212 PT221	3-07-012-01	0.0 8,760.0	A	0.0 321,000.0	70.0 140.0
OS35	11PM #11Kro	#11 Krofta	Normal - Steady State	E230		PT225	3-07-012-01	0.0 8,760.0	A	0.0 27,000.0	70.0 120.0

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U 2 #10 & 11 PM No. 10 & 11 Paper Machines & Associated Equipment

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS36	11PM Float	11PM Floatate Tank	Normal - Steady State	E231		PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212 PT221	3-07-012-01	0.0 8,760.0	A	0.0 321,000.0	70.0 140.0

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OS37	11PM - Clean	11PM - Cleaning	Maintenance	E221		PT203	3-07-012-01	0.0 8,760.0	A	0.0 461,250.0	70.0 140.0
						PT204					
						PT205					
						PT206					
						PT207					
						PT208					
						PT209					
						PT210					
						PT211					
						PT212					
						PT213					
						PT221					
						PT222					
						PT223					
						PT224					
						PT225					

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS38	AES #1	11PM AES Strainer #1	Normal - Steady State	E233		PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212 PT221	3-07-012-01	0.0 8,760.0	A	0.0 321,000.0	70.0 140.0
OS39	AES #2	11PM AES Strainer #2	Normal - Steady State	E234		PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212 PT221	3-07-012-01	0.0 8,760.0	A	0.0 321,000.0	70.0 140.0
OS40	10PM AES #1	10PM AES Strainer #1	Normal - Steady State	E215		PT215	3-07-013-99	0.0 8,760.0	A	0.0 1,000.0	70.0 120.0
OS41	10PM AES #2	10PM AES Strainer #2	Normal - Steady State	E216		PT215	3-07-013-99	0.0 8,760.0	A	0.0 1,000.0	70.0 120.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS42	11PM-NG,M,D	11PM - No. 11 Paper Machine Burner Operating on Natural Gas; Mist Collector; Dust Collector	Normal - Steady State	E221	CD201 (P) CD202 (P)	PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212 PT221 PT222 PT223 PT224	3-07-012-01	0.0 8,760.0	A	0.0 434,250.0	70.0 140.0

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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.
OS43	11PM-NG,M	11PM - No. 11 Paper Machine Burner Operating on Natural Gas; Mist Collector	Normal - Steady State	E221	CD202 (P)	PT203	3-07-012-01	0.0	240.0	A	0.0	399,850.0	70.0	140.0
						PT204								
						PT205								
						PT206								
						PT207								
						PT208								
						PT209								
						PT210								
						PT211								
						PT212								
						PT221								
						PT222								
						PT223								
OS44	11PM-NG,D	11PM - No. 11 Paper Machine Burner Operating on Natural Gas; Dust Collector	Normal - Steady State	E221	CD201 (P)	PT203	3-07-012-01	0.0	240.0	A	0.0	371,250.0	70.0	140.0
						PT204								
						PT205								
						PT206								
						PT207								
						PT208								
						PT209								
						PT210								
						PT211								
						PT212								
						PT221								
						PT222								
						PT224								

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS45	11PM-FO,M,D	11PM - No. 11 Paper Machine Burner Operating on No. 2 Fuel Oil; Mist Collector; Dust Collector	Normal - Steady State	E221	CD201 (P) CD202 (P)	PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212 PT221 PT222 PT223 PT224	3-07-012-01	0.0 8,760.0	A	0.0 434,250.0	70.0 140.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS46	11PM-FO,M	11PM - No. 11 Paper Machine Burner Operating on No. 2 Fuel Oil; Mist Collector	Normal - Steady State	E221	CD202 (P)	PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212 PT221 PT222 PT223	3-07-012-01	0.0 240.0	A	0.0 399,850.0	70.0 140.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS47	11PM-FO,D	11PM - No. 11 Paper Machine Burner Operating on No. 2 Fuel Oil; Dust Collector	Normal - Steady State	E221	CD201 (P)	PT203 PT204 PT205 PT206 PT207 PT208 PT209 PT210 PT211 PT212 PT221 PT222 PT224	3-07-012-01	0.0 240.0	A	0.0 371,250.0	70.0 140.0

U 9 FD Fiber Division Process Equipment

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS1	FD LCON-1	FD Low Density Pulper (LCON-1)	Normal - Steady State	E901		PT901 PT902 PT903	3-07-012-01	0.0 8,760.0	A	0.0 62,000.0	30.0 110.0

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U9 FD Fiber Division Process Equipment

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.	Min.	Max.
OS2	FD LCON-2	FD Low Density Pulper (LCON-2)	Normal - Steady State	E902			PT901	3-07-012-01	0.0	8,760.0	A	0.0	62,000.0	30.0	110.0	
							PT902									
							PT903									
							PT904									
							PT905									
OS3	FD Dump	FD Dump Chest	Normal - Steady State	E903			PT906	3-07-012-01	0.0	8,760.0	A	0.0	8,000.0	30.0	110.0	
							PT907									
							PT908									
							PT909									
							PT910									
OS5	FD Vortrap	FD Vortrap Chest	Normal - Steady State	E905			PT906	3-07-012-01	0.0	8,760.0	A	0.0	119,000.0	30.0	110.0	
							PT907									
							PT908									
							PT909									
							PT910									
OS6	FD CW-1Long	FD Primary Washing (CW-1) Long Bank	Normal - Steady State	E906			PT906	3-07-012-01	0.0	8,760.0	A	0.0	119,000.0	30.0	110.0	
							PT907									
							PT908									
							PT909									
							PT910									
OS7	FD CW-1Shor	FD Primary Washing (CW-1) Short Bank	Normal - Steady State	E907			PT906	3-07-012-01	0.0	8,760.0	A	0.0	119,000.0	30.0	110.0	
							PT907									
							PT908									
							PT909									
							PT910									
OS8	FD Bauer Pr	FD Primary Bauer Cleaner	Normal - Steady State	E908			PT911	3-07-012-01	0.0	8,760.0	A	0.0	38,000.0	30.0	110.0	
							PT912									
OS9	FD Bauer Ac	FD Bauer Accepts Chest	Normal - Steady State	E909			PT911	3-07-012-01	0.0	8,760.0	A	0.0	38,000.0	30.0	110.0	
							PT912									

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U 9 FD Fiber Division Process Equipment

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.	Min.	Max.
OS10	FD Bauer Re	FD Bauer Rejects Chest	Normal - Steady State	E910		PT911 PT912	3-07-012-01	0.0	8,760.0	A		0.0	38,000.0	30.0	110.0
OS14	FD 4th Rej	FD 4th Stage Bauer Rejects Chest	Normal - Steady State	E914		PT911 PT912	3-07-012-01	0.0	8,760.0			0.0	38,000.0	30.0	110.0
OS15	FD Common	FD Common Reject Test	Normal - Steady State	E915		PT911 PT912	3-07-012-01	0.0	8,760.0	A		0.0	38,000.0	30.0	110.0
OS16	FD Voith#1	FD Voith Screens Reject Tank #1	Normal - Steady State	E916		PT904 PT905	3-07-012-01	0.0	8,760.0	A		0.0	8,000.0	30.0	110.0
OS17	FD Voith#2	FD Voith Screens Reject Tank #2	Normal - Steady State	E917		PT904 PT905	3-07-012-01	0.0	8,760.0	A		0.0	8,000.0	30.0	110.0
OS18	FD CW-2Long	FD Secondary Washing (CW-2) Long Bank	Normal - Steady State	E918		PT906 PT907	3-07-012-01	0.0	8,760.0	A		0.0	119,000.0	30.0	110.0
OS19	FD CW-2Shor	FD Secondary Washing (CW-2) Short Bank	Normal - Steady State	E919		PT906 PT907 PT908 PT909 PT910	3-07-012-01	0.0	8,760.0	A		0.0	119,000.0	30.0	110.0
OS20	FD Kettle	FD Kettle (STC-4)	Normal - Steady State	E920		PT906 PT907 PT908 PT909 PT910	3-07-012-01	0.0	8,760.0	A		0.0	119,000.0	30.0	110.0

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U 9 FD Fiber Division Process Equipment

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours			VOC		Flow (acfm)		Temp. (deg F)	
								Min.	Max.	Range	Min.	Max.	Min.	Max.	Min.	Max.
OS21	FD Dewater	FD Dewatering Screw Press	Normal - Steady State	E921		PT913 PT914 PT915 PT916	3-07-012-01	0.0	8,760.0	A	0.0	22,000.0	0.0	22,000.0	30.0	110.0
OS22	FD Press#1	FD Vertical Screw Press #1	Normal - Steady State	E922		PT913 PT914 PT915 PT916	3-07-012-01	0.0	8,760.0	A	0.0	22,000.0	0.0	22,000.0	30.0	110.0
OS23	FD Press#2	FD Vertical Screw Press #2	Normal - Steady State	E923		PT913 PT914 PT915 PT916	3-07-012-01	0.0	8,760.0	A	0.0	22,000.0	0.0	22,000.0	30.0	110.0
OS24	FD Press#3	FD Vertical Screw Press #3	Normal - Steady State	E924		PT913 PT914 PT915 PT916	3-07-012-01	0.0	8,760.0	A	0.0	22,000.0	0.0	22,000.0	30.0	110.0
OS31	FD EW C1S1	FD EW Cell #1 - Stage #1	Normal - Steady State	E931		PT919 PT920	3-07-012-01	0.0	8,760.0	A	0.0	13,000.0	0.0	13,000.0	30.0	110.0
OS32	FD EW C1S2	FD EW Cell #1 - Stage #2	Normal - Steady State	E932		PT919 PT920	3-07-012-01	0.0	8,760.0	A	0.0	13,000.0	0.0	13,000.0	30.0	110.0
OS33	FD EW C2S1	FD EW Cell #2 - Stage #1	Normal - Steady State	E933		PT919 PT920	3-07-012-01	0.0	8,760.0	A	0.0	13,000.0	0.0	13,000.0	30.0	110.0
OS34	FD EW C2S2	FD EW Cell #2 - Stage #2	Normal - Steady State	E934		PT919 PT920	3-07-012-01	0.0	8,760.0	A	0.0	13,000.0	0.0	13,000.0	30.0	110.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS35	FD CW-3Sho1	FD Washing (CW-3) Short Bank #1	Normal - Steady State	E935		PT906 PT907 PT908 PT909 PT910	3-07-012-01	0.0 8,760.0	A	0.0 119,000.0	30.0 110.0
OS36	FD CW-3Sho2	FD Washing (CW-3) Short Bank #2	Normal - Steady State	E936		PT906 PT907 PT908 PT909 PT910	3-07-012-01	0.0 8,760.0	A	0.0 119,000.0	30.0 110.0
OS37	FD CW-3Sho3	FD Washing (CW-3) Short Bank #3	Normal - Steady State	E937		PT906 PT907 PT908 PT909 PT910	3-07-012-01	0.0 8,760.0	A	0.0 119,000.0	30.0 110.0
OS38	FD Sidehill	FD Sidehill Washer	Normal - Steady State	E938		PT911 PT912	3-07-012-01	0.0 8,760.0	A	0.0 38,000.0	30.0 110.0
OS39	FD Stock	FD Brown Stock Chest	Normal - Steady State	E939		PT911 PT912	3-07-012-01	0.0 8,760.0	A	0.0 38,000.0	30.0 110.0
OS40	FD Washer#1	FD Caustic Washer #1 (W-1)	Normal - Steady State	E940		PT921 PT925 PT926	3-07-012-01	0.0 8,760.0	A	0.0 2,000.0	140.0 160.0
OS41	FD Tower#2	FD Caustic Tower #2 (T-2)	Normal - Steady State	E941		PT921	3-07-012-01	0.0 8,760.0	A	0.0 2,000.0	140.0 160.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS42	FD Washer#2	FD Caustic Washer #2 (W-2)	Normal - Steady State	E942		PT921 PT925 PT926	3-07-012-01	0.0 8,760.0	A	0.0 2,000.0	140.0 160.0
OS43	FD Tower#3	FD Hypochlorite Tower #3 (T-3)	Normal - Steady State	E943		PT921 PT925 PT926	3-07-012-01	0.0 8,760.0	A	0.0 2,000.0	140.0 160.0
OS44	FD Washer#3	FD Hypochlorite Washer #3 (W-3)	Normal - Steady State	E944		PT921 PT925 PT926	3-07-012-01	0.0 8,760.0	A	0.0 2,000.0	140.0 160.0
OS45	FD Seal#1	FD Seal Pit #1	Normal - Steady State	E945		PT911 PT912	3-07-012-01	0.0 8,760.0	A	0.0 38,000.0	30.0 110.0
OS46	FD Seal#2	FD Seal Pit #2	Normal - Steady State	E946		PT911 PT912	3-07-012-01	0.0 8,760.0	A	0.0 38,000.0	30.0 110.0
OS47	FD Seal#3	FD Seal Pit #3	Normal - Steady State	E947		PT911 PT912	3-07-012-01	0.0 8,760.0	A	0.0 38,000.0	30.0 110.0
OS48	FD Reject#1	FD Reject Sorter #1	Normal - Steady State	E948		PT901 PT902 PT903	3-07-012-01	0.0 8,760.0	A	0.0 62,000.0	30.0 110.0
OS49	FD Reject#2	FD Reject Sorter #2	Normal - Steady State	E949		PT901 PT902 PT903	3-07-012-01	0.0 8,760.0	A	0.0 62,000.0	30.0 110.0
OS50	FD Select#1	FD Select Purge #1	Normal - Steady State	E950		PT901 PT902 PT903	3-07-012-01	0.0 8,760.0	A	0.0 62,000.0	30.0 110.0

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UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS51	FD Select#2	FD Select Purge #2	Normal - Steady State	E951		PT901 PT902 PT903	3-07-012-01	0.0 8,760.0	A	0.0 62,000.0	30.0 110.0
OS52	FD Compact	FD Trash Compactor	Normal - Steady State	E952		PT924	3-07-012-01	0.0 8,760.0	A	0.0 1,000.0	30.0 110.0
OS53	FD Pulper	FD Pulper No. 4	Normal - Steady State	E953		PT904 PT905	3-07-012-01	0.0 8,760.0	A	0.0 8,000.0	30.0 100.0
OS54	FD Dump	FD Dump Chest	Normal - Steady State	E954		PT922 PT923	3-07-012-01	0.0 8,760.0	A	0.0 29,000.0	30.0 100.0
OS55	FD Clafin	FD Clafin Chest	Normal - Steady State	E955		PT906 PT907 PT908 PT909 PT910	3-07-012-01	0.0 8,760.0	A	0.0 119,000.0	30.0 100.0
OS56	FD Coarse	FD Coarse Rejects Tank	Normal - Steady State	E956		PT906 PT907 PT908 PT909 PT910	3-07-012-01	0.0 8,760.0	A	0.0 119,000.0	30.0 110.0
OS57	FD Reject#3	FD Tertiary Fine Screens Reject Chest #3	Normal - Steady State	E957		PT904 PT905	3-07-012-01	0.0 8,760.0	A	0.0 8,000.0	30.0 110.0

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U 15 Slush Tank Process Tank for Paper Slush Feedstock

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS1	SLUSH TANK	STORAGE SYSTEM WITH INTERMITTENT FILLING	Normal - Steady State	E1501		PT1501		8,760.0 8,760.0		0.0 40.0	60.0 80.0

U 22 Belt Presses Soundview Paper Residuals Belt Presses

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS1	Belt Press 1	Soundview Paper Residuals Belt Press #1	Normal - Steady State	E2201		PT2201 PT2202 PT2203 PT2204 PT2205 PT2206 PT2207 PT2208 PT2209	3-07-012-01	0.0 8,760.0	A	0.0 171,000.0	30.0 100.0

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U 22 Belt Presses Soundview Paper Residuals Belt Presses

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS2	Belt Press 2	Soundview Paper Residuals Belt Press #2	Normal - Steady State	E2202		PT2201	3-07-012-01	0.0 8,760.0	A	0.0 171,000.0	30.0 100.0
						PT2202					
						PT2203					
						PT2204					
						PT2205					
						PT2206					
						PT2207					
						PT2208					
						PT2209					
OS3	Belt Press 3	Soundview Paper Residuals Belt Press #3	Normal - Steady State	E2203		PT2201	3-07-012-01	0.0 8,760.0	A	0.0 171,000.0	30.0 100.0
						PT2202					
						PT2203					
						PT2204					
						PT2205					
						PT2206					
						PT2207					
						PT2208					
						PT2209					

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U 22 Belt Presses Soundview Paper Residuals Belt Presses

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS4	Belt Press 4	Soundview Paper Residuals Belt Press #4	Normal - Steady State	E2204		PT2201	3-07-012-01	0.0 8,760.0	A	0.0 171,000.0	30.0 100.0
						PT2202					
						PT2203					
						PT2204					
						PT2205					
						PT2206					
						PT2207					
						PT2208					
						PT2209					
OS5	Belt Press 5	Soundview Paper Residuals Belt Press #5	Normal - Steady State	E2205		PT2201	3-07-012-01	0.0 8,760.0	A	0.0 171,000.0	30.0 100.0
						PT2202					
						PT2203					
						PT2204					
						PT2205					
						PT2206					
						PT2207					
						PT2208					
						PT2209					

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U 22 Belt Presses Soundview Paper Residuals Belt Presses

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS6	Belt Press 6	Soundview Paper Residuals Belt Press #6	Normal - Steady State	E2206		PT2201	3-07-012-01	0.0 8,760.0	A	0.0 171,000.0	30.0 100.0
						PT2202					
						PT2203					
						PT2204					
						PT2205					
						PT2206					
						PT2207					
						PT2208					
						PT2209					
OS7	Belt Press 7	Soundview Paper Residuals Belt Press #7	Normal - Steady State	E2207		PT2201	3-07-012-01	0.0 8,760.0	A	0.0 171,000.0	30.0 100.0
						PT2202					
						PT2203					
						PT2204					
						PT2205					
						PT2206					
						PT2207					
						PT2208					
						PT2209					

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U 23 Conveyor Conveyor Bridge for Transferring Wet Soundview Paper Residuals to Bldg. 43

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS1	Pipe Bridge	Wet Soundview Paper Residuals Material Handling Operations form Contraries Building to White Tank	Normal - Steady State	E2301		PT2301	3-07-999-98	0.0 8,760.0	A	0.0 0.0	60.0 80.0
OS2	Screw Press	Wet Soundview Paper Residuals Material Handling Operations within Kaofin Building including through Screw Presses for Excess Water Removal	Normal - Steady State	E2302		PT2303 PT2304 PT4003 PT4004 PT4005 PT4006 PT4007 PT4008 PT4009 PT4010 PT4011	3-07-999-98	0.0 8,760.0	A	38,000.0 105,000.0	30.0 100.0
OS3	White Tank	Temporary Storage and Loading Operations for Wet Soundview Paper Residuals Material	Normal - Steady State	E2303		PT2302	3-07-999-98	0.0 8,760.0	A	0.0 0.0	32.0 90.0

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U 40 Fiber Rec. Fiber Recovery Process Equipment

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours			Flow (acfm)		Temp. (deg F)	
								Min.	Max.	VOC Range	Min.	Max.	Min.	Max.
OS1	FR CW-5	FR CW-5 Washer	Normal - Steady State	E4001		PT4001	3-07-012-01	0.0	8,760.0	A	0.0	13,000.0	30.0	100.0
						PT4002								
OS2	FR CW-6	FR CW-6 Washer	Normal - Steady State	E4002		PT4001	3-07-012-01	0.0	8,760.0	A	0.0	13,000.0	30.0	100.0
						PT4002								
OS3	FR Float	FR Floatation Cell	Normal - Steady State	E4003		PT4001	3-07-012-01	0.0	8,760.0	A	0.0	9,000.0	30.0	100.0
						PT4002								
OS4	FR Surge S	FR Surge Tank Stock Side	Normal - Steady State	E4004		PT4003	3-07-012-01	0.0	8,760.0	A	0.0	9,000.0	30.0	100.0
						PT4004								
OS5	FR Surge Wt	FR Surge Tank Water Side	Normal - Steady State	E4005		PT4005	3-07-012-01	0.0	8,760.0	A	0.0	9,000.0	30.0	100.0
						PT4006								
						PT4007								
						PT4008								
						PT4009								
						PT4010								
						PT4011								
						PT4003								
						PT4004								
						PT4005								
						PT4006								

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U 40 Fiber Rec. Fiber Recovery Process Equipment

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS6	FR Head Box	FR Rejects Sorter Head Box	Normal - Steady State	E4006		PT4003	3-07-012-01	0.0 8,760.0	A	0.0 9,000.0	30.0 100.0
						PT4004					
						PT4005					
						PT4006					
						PT4007					
						PT4008					
						PT4009					
						PT4010					
						PT4011					
						PT4001		0.0 8,760.0	A	0.0 9,000.0	30.0 100.0
						PT4002					
OS7	FR Sorter#3	FR Rejects Sorter #3	Normal - Steady State	E4007		PT4003	3-07-012-01	0.0 8,760.0	A	0.0 9,000.0	30.0 100.0
OS8	10PM Krofta	10PM Krofta	Normal - Steady State	E4008		PT4003	3-07-012-01	0.0 8,760.0	A	0.0 9,000.0	30.0 100.0
						PT4004					
						PT4005					
						PT4006					
						PT4007					
						PT4008					
						PT4009					
						PT4010					
						PT4011					

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U 40 Fiber Rec. Fiber Recovery Process Equipment

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC		Flow (acfm)		Temp. (deg F)														
								Min.	Max.	Range	Min.	Max.	Min.	Max.	Min.	Max.												
OS9	10PM Float	10PM Floatate Tank	Normal - Steady State	E4009		PT4003	3-07-012-01	0.0	8,760.0	A	0.0	9,000.0	30.0	100.0														
						PT4004																						
						PT4005																						
						PT4006																						
						PT4007																						
						PT4008																						
						PT4009																						
						PT4010																						
						PT4011																						
						OS10									FD1 Krofta	FD1 De-Ink Krofta	Normal - Steady State	E4010		PT4003	3-07-012-01	0.0	8,760.0	A	0.0	9,000.0	30.0	100.0
																				PT4004								
PT4005																												
PT4006																												
PT4007																												
PT4008																												
PT4009																												
PT4010																												
PT4011																												

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U 40 Fiber Rec. Fiber Recovery Process Equipment

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS11	FD1 Floatate	FD1 Floatate Tank	Normal - Steady State	E4011		PT4003 PT4004 PT4005 PT4006 PT4007 PT4008 PT4009 PT4010 PT4011	3-07-012-01	0.0 8,760.0	A	0.0 9,000.0	30.0 100.0
OS12	FD1 Strainer	FD1 Strainer	Normal - Steady State	E4012		PT4012	3-07-012-01	0.0 8,760.0	A	0.0 9,000.0	30.0 100.0
OS13	FD1 Str Tank	FD1 Strained Water Tank	Normal - Steady State	E4013		PT4003 PT4004 PT4005 PT4006 PT4007 PT4008 PT4009 PT4010 PT4011	3-07-012-01	0.0 8,760.0	A	0.0 9,000.0	30.0 100.0

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U 41 Towel 1 #1 Towel Line

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS1	Towel 1	Towel Line #1	Normal - Steady State	E4101		PT4101 PT4102 PT4103 PT4104 PT4105	3-07-013-99	0.0 8,760.0	A	0.0 100,000.0	70.0 120.0

U 44 SewerPumps 2 Diesel Sewer Pumps, each 1.24 MMBtu/hr

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS1	Sewer Pump 1	Sewer Pump Generator #1	Normal - Steady State	E4401		PT4401		0.0 500.0			
OS2	Sewer Pump 2	Sewer Pump Generator #2	Normal - Steady State	E4501		PT4402		0.0 500.0			

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U 47 11 PM Em.Gen No.11 Paper Machine Diesel Emergency Generator <= 15 MMBtu/hr (GP EG-A2)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS1	11 PM Gen	Emergency Generator for No. 11 Paper Machine	Normal - Steady State	E4701		PT4701		0.0 500.0			

U 48 Fire Pump Diesel Fire Pump at Gate #2

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS1	Gate #2 Pump	Gate #2 Fire Pump	Normal - Steady State	E4801		PT4801	2-03-001-01	0.0 100.0		1,000.0 2,000.0	100.0 1,000.0

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U 60 300,000 Tank 300,000 Gallon ULSD Tank

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS1	300,000 Tank	Storage Tank Normal Operation	Normal - Steady State	E6000		PT6000	4-03-010-21	8,760.0 8,760.0	A	0.0 40.1	0.0 100.0