



State of New Jersey

Department of Environmental Protection

Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

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

Trenton, NJ 08625-0420

PHILIP D. MURPHY

Governor

SHEILA Y. OLIVER

Lt. Governor

SHAWN M. LATOURETTE

COMMISSIONER

Air Pollution Control Operating Permit Renewal

Permit Activity Number: BOP190001

Program Interest Number: 51572

Mailing Address	Plant Location
JIM SHERIDAN PLANT LEADER DDP SPECIALTY ELECTRONIC MATERIALS US INC 1500 JOHN TIPTON BLVD Pennsauken Twp, NJ 08110	DDP SPECIALTY ELECTRONIC MATERIALS US, INC. 1500 John Tipton Blvd Pennsauken Camden County

Initial Operating Permit Approval Date:

August 30, 2000

Operating Permit Approval Date:

PROPOSED

Operating Permit Expiration Date:

AUTHORITY AND APPLICABILITY

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

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

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

PERMIT SHIELD

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

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

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

ACCESSING PERMITS

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

HELPLINE

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

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

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

COMPLIANCE ASSURANCE MONITORING

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

ADMINISTRATIVE HEARING REQUEST

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

If you have any questions regarding this permit approval, please call Darshil Bhavsar at (609) 984-5511.

Approved by:

Kevin Greener

Enclosure

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

Facility Name: DDP SPECIALTY ELECTRONIC MATERIALS US, INC.
Program Interest Number: 51572
Permit Activity Number: BOP190001

TABLE OF CONTENTS

<u>Section A</u>	POLLUTANT EMISSIONS SUMMARY
<u>Section B</u>	GENERAL PROVISIONS AND AUTHORITIES
<u>Section C</u>	STATE-ONLY APPLICABLE REQUIREMENTS
<u>Section D</u>	FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES
	<ul style="list-style-type: none">• FACILITY SPECIFIC REQUIREMENTS – PAGE INDEX• REASON FOR APPLICATION• FACILITY SPECIFIC REQUIREMENTS (COMPLIANCE PLAN)• ATTACHMENTS TO FACILITY SPECIFIC REQUIREMENTS<ul style="list-style-type: none">◦ MONTHLY EMISSIONS CALCULATIONS EQUATIONS• FACILITY PROFILE (ADMINISTRATIVE INFORMATION)• NON-SOURCE FUGITIVE EMISSIONS• INSIGNIFICANT SOURCE EMISSIONS• EQUIPMENT INVENTORY• EQUIPMENT DETAILS• CONTROL DEVICE INVENTORY• CONTROL DEVICE DETAILS• EMISSION POINT INVENTORY• EMISSION UNIT / BATCH PROCESS INVENTORY

Section A

Facility Name: DDP SPECIALTY ELECTRONIC MATERIALS US, INC.

Program Interest Number: 51572

Permit Activity Number: BOP190001

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	16.9	0.88	0.38	N/A	16.0	16.0	16.0	N/A	N/A	
Batch Process Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Group Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Emissions	16.9	0.88	0.38	N/A	16.0	16.0	16.0	N/A	N/A	1,219

Table 2: Estimate of total emissions from all Insignificant Source Operations¹ and total emissions from Non-Source Fugitives at the facility.

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} ² (total)	Pb	HAPs (total)
Insignificant Source Operations	0.306	3.10	1.06	0.096	0.238	0.238	0.238	N/A	N/A
Non-Source Fugitive Emissions ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

VOC: Volatile Organic Compounds

NO_x: Nitrogen Oxides

CO: Carbon Monoxide

SO₂: Sulfur Dioxide

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

TSP: Total Suspended Particulates

Other: Any other air contaminant

regulated under the Federal CAA

PM₁₀: Particulates under 10 microns

PM_{2.5}: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO₂e: Carbon Dioxide equivalent

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

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

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

² Total CO₂e emissions for the facility.

³ Non-Source Fugitive Emissions are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

Section A

Facility Name: DDP SPECIALTY ELECTRONIC MATERIALS US, INC.

Program Interest Number: 51572

Permit Activity Number: BOP190001

POLLUTANT EMISSIONS SUMMARY

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations ⁴:

HAP	TPY
N/A	N/A

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

Other Air Contaminant	TPY
N/A	N/A

⁴ 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: DDP SPECIALTY ELECTRONIC MATERIALS US, INC.

Program Interest Number: 51572

Permit Activity Number: BOP190001

GENERAL PROVISIONS AND AUTHORITIES

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

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

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

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

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

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

Section C

Facility Name: DDP SPECIALTY ELECTRONIC MATERIALS US, INC.

Program Interest Number: 51572

Permit Activity Number: BOP190001

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: DDP SPECIALTY ELECTRONIC MATERIALS US, INC.

Program Interest Number: 51572

Permit Activity Number: BOP190001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

<u>Subject Item and Name</u>	<u>Page Number</u>
-------------------------------------	---------------------------

Facility (FC):

FC	1
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Insignificant Sources (IS):

IS NJID	IS Description	
IS1	Space Heaters (21) Combusting Natural Gas (Each Unit < 1 MMBTU/hr Heat Input)	7
IS2	Emergency Diesel Engine - Fire Pump- 165 hp (< 1 MMBTU/hr Heat Input), Subject to MACT Subpart ZZZZ	8
IS3	Diesel Engine - Diesel Oil Tank - 250 gal.	14

Emission Units (U):

U NJID	U Designation	U Description	
U2	Oven/Pouring	Pour Head and Curing Ovens	15
U3	Cutting	Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws	31
U4	Packaging	Product Packaging Conveyors	50

DDP SPECIALTY ELECTRONIC MATERIALS US, INC. (51572)
BOP190001

Date: 11/17/202

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 180001

Description This is a five-year Operating Permit Renewal.

of Modifications: The following changes are made to the operating permit during this renewal process:

1. Added reportable PM-2.5 emissions for all emission units.
2. Updated FC section of compliance plan.
3. Updated language of existing requirements for completeness.
4. Revised monitoring frequency for baghouse CD4 from "1-hour block average" to "continuously".

BOP190001

**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.

BOP190001

**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.	<p>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.</p> <p>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]</p>
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)].	<p>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)]</p>
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.

BOP190001

**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]

BOP190001

**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]

BOP190001

**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.

BOP190001

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

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

BOP190001

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

Subject Item: IS1 Space Heaters (21) Combusting Natural Gas (Each Unit < 1 MMBTU/hr Heat Input)

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 three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 3.2]	None.	None.	None.
2	The fuel for IS1 is limited to Natural Gas. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	Maximum Gross Heat Input < 1 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

BOP190001

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

Subject Item: IS2 Emergency Diesel Engine - Fire Pump- 165 hp (< 1 MMBTU/hr Heat Input), Subject to MACT Subpart ZZZZ

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63 Subpart ZZZZ [None]			
2	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). 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	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
5	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>1. During the performance of normal testing and maintenance procedures, including other fire protection equipment, as recommended in writing by the fire pump or fire protection system manufacturer and/or as required in writing by a Federal or State law or regulation,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 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; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu, or</p> <p>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>	<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; and hours of operation for testing and maintenance calculated by the following:</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. Record the following information:</p> <p>1. Once per month, the total operating time from the generator's hour meter and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ol style="list-style-type: none"> The reason for its operation; The date(s) of operation and the start up and shut down time; The total operating time for testing or maintenance based on the generator's hour meter; and The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of 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.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. 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. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
9	Maximum Gross Heat Input < 1 MMBTU/hr (HHV) . [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
10	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall change oil and filter every 500 hours of operation or annually, whichever comes first, as prescribed in Table 2d, item 4a to Subpart ZZZZ of 40 CFR 63. (MACT Subpart ZZZZ) [40 CFR 63.6603(a)]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. The owner or operator has an option of utilizing an oil analysis program, at the same frequency specified for changing the oil, in order to extend the specified oil change requirement, per 40 CFR 63.6625(i). The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the oil and filter change. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary, as prescribed in Table 2d, item 4b and 4c to Subpart ZZZZ of 40 CFR 63. (MACT Subpart ZZZZ) [40 CFR 63.6603(a)]	Other: The owner or operator shall inspect air cleaner every 1000 hours or annually, whichever comes first and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the maintenance procedures and air cleaner, belt and hoses replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
12	The engine must be in compliance with all applicable emission limitations and operating limitations in Subpart ZZZZ of 40 CFR 63 at all times. (MACT Subpart ZZZZ) [40 CFR 63.6605(a)]	None.	None.	None.
13	At all times the owner or operate must operate and maintain a RICE including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. (MACT Subpart ZZZZ) [40 CFR 63.6605(b)]	None.	None.	None.
14	An owner or operator of an existing stationary emergency or black start RICE must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or the owner or operator must develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. (MACT Subpart ZZZZ) [40 CFR 63.6625(e)]	Other: Monitored according to the manufacturer's emission-related written instructions or the maintenance plan developed by the owner or operator. [40 CFR 63.6625(e)].	Other: The owner or operator must keep records of the maintenance procedures. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. (MACT Subpart ZZZZ) [40 CFR 63.6625(h)]	Other: Monitored according to the manufacturer's emission-related operation and maintenance instructions; or the maintenance plan developed by the owner or operator which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Other: The owner or operator must keep records of the maintenance procedures and replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.
16	The owner or operator may operate an emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. (MACT Subpart ZZZZ) [40 CFR 63.6640(f)(2i)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 63.6655(f)(2)]	None.
17	The owner or operator shall comply with the General Provisions as shown in Table 8 to Subpart ZZZZ of 40 CFR 63 that apply to an existing emergency or black start CI RICE constructed or reconstructed before June 12, 2006 and located at an area source of HAP emissions except for a residential, commercial, or institutional emergency stationary RICE. (MACT Subpart ZZZZ) [40 CFR 63.6665]	None.	None.	None.

BOP190001

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

Subject Item: IS3 Diesel Engine - Diesel Oil Tank - 250 gal.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 Parts per Million. No person shall use fuel that contains sulfur in excess of the applicable parts per million by weight set forth in N.J.A.C. 7:27-9 Table 1B (effective July 1, 2016). [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time the fuel was stored in New Jersey may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U2 Pour Head and Curing Ovens

Subject Item: CD3 Activated Carbon Bed Adsorption

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall operate an activated carbon bed adsorption system with two beds in parallel for control of all emissions from the applicable operations. The system shall be operated and maintained in accordance with the manufacturers recommended procedures. [N.J.A.C. 7:27-16.16(g)3i]	None.	Other: The owner or operator shall maintain production records sufficient to demonstrate whether the processes conducted generated VOC emissions within the design parameters of the carbon adsorption system and any other information required to document whether the carbon adsorption system is being used and maintained in accordance with the manufacture's recommended procedures. The owner or operator shall provide this information to the Department upon request, and keep a copy of the manufacturer's recommendations for the life of the control device. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-16.16(g)3ii].	None.
2	Time Between Replacement of Carbon <= 360 minutes. Maximum time between carbon bed switching. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall install and operate a system that automatically switches the adsorption unit between carbon beds, purges and dries the offline bed, and has the offline bed ready in standby for the next cycle. [N.J.A.C. 7:27-22.16(o)].	Time Between Replacement of Carbon: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The permittee shall record the date and time the carbon adsorption unit is regenerated. [N.J.A.C. 7:27-16.16(g)3ii]	None.
3	VOC Control Efficiency >= 95 %. Minimum control efficiency for adsorption unit based on 100% capture. [N.J.A.C. 7:27-22.16(a)]	VOC Control Efficiency: Monitored by periodic emission monitoring each week during operation. The owner or operator shall measure the VOC concentration before and after the adsorption unit and calculate the control efficiency. [N.J.A.C. 7:27-22.16(o)]	VOC Control Efficiency: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. The owner or operator shall record the VOC concentration before and after the adsorption unit and the calculated control efficiency. [N.J.A.C. 7:27-22.16(o)]	None.
4	Weight of activated carbon >= 4,000 lbs. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain manufacturer's specifications showing total weight of activated carbon. [N.J.A.C. 7:27-22.16(o)].	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The activated carbon shall be replaced prior to becoming spent. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall take a sample of the activated carbon after regeneration for analysis once per year per the manufacturer's recommended procedures.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily available copies of the activated carbon analysis.[N.J.A.C. 7:27-22.16(o)].	None.
6	Spent carbon to be handled in accordance with all applicable state and federal regulations. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain copies of shipping manifests for each shipment.[N.J.A.C. 7:27-22.16(o)].	None.
7	The owner or operator shall inspect and maintain the carbon adsorber (CD3) on a schedule necessary to achieve the required control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once every 2 weeks. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once every 2 weeks. Record each inspection and maintenance event in a permanently bound log book or readily accessible computer based memory. Keep a copy of the manufacturer's specifications for the life of the control device. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Emission Unit: U2 Pour Head and Curing Ovens

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a stack test no later than every five years from the last stack test using an approved protocol to demonstrate compliance with emission limits for VOC as specified in the compliance plan for OS5, OS8, and OS9.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with EMS approval. In order for EMS 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. [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 EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]</p>
2	<p>Particulate Emissions <= 0.5 lb/hr. Particulate emission limit based on 0.02 grains per standard cubic foot for each stack (PT2, PT3, PT4, PT5 & PT8). [N.J.A.C. 7:27- 6.2(a)]</p>	None.	None.	None.

U2 Pour Head and Curing Ovens

OS Summary

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Opacity <= 20 % , exclusive of visible condensed water vapor, for a period of not longer than three minutes in any consecutive 30-minute period for PT2, PT3, PT4, PT5 & PT8. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
4	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	<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.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	VOC (Total) <= 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: Calculations and/or test data used to determine actual emission rate for each process or process records. 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.[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. 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)1] and.[N.J.A.C. 7:27-16.22(a)].	None.
6	VOC (Total) <= 10.5 tons/yr. Annual emission limit per any 12 consecutive months based on the manufacturing of Class A or B products for a maximum of 8,760 hours of operation per year and the testing of new formulations for a maximum of 120 hours per year. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The owner or operator shall calculate the monthly emissions for each product using the equation in attachment item #1. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	NO _x (Total) ≤ 0.88 tons/yr. Annual emission limit per any 12 consecutive months based on 8,760 hours of operation per year and the testing of new formulations for a maximum of 120 hours per year. [N.J.A.C. 7:27-22.16(a)]	NO _x (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
8	CO ≤ 0.38 tons/yr. Annual emission limit per any 12 consecutive months based on the manufacturing of Class A or B products for a maximum of 8,760 hours of operation per year and the testing of new formulations for a maximum of 120 hours per year. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
9	TSP ≤ 0.991 tons/yr. Annual emission limit per any 12 consecutive months based on 8,760 hours of operation per year and the testing of new formulations for a maximum of 120 hours per year. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
10	PM-10 (Total) ≤ 0.991 tons/yr. Annual emission limit per any 12 consecutive months based on 8,760 hours of operation per year and the testing of new formulations for a maximum of 120 hours per year. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	PM-2.5 (Total) <= 0.991 tons/yr. Annual emission limit per any 12 consecutive months based on 8,760 hours of operation per year and the testing of new formulations for a maximum of 120 hours per year. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
12	VOC (Total) <= 5 % by weight. Material limited to VOC emitting compounds that are not a HAP as defined at 40 CFR 63.1(a)(2) (Class A or Class B) with a concentration of VOC >= 5% by weight for Operating Scenarios OS5-OS9. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall calculate the percentage of blowing agent and fire retardant for each formulation once initially for each product based on Safety Data Sheets (SDS) for the raw materials used in production and the production records indicating the amount of raw materials used in each product.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator will maintain copies of the calculations showing the percentage of blowing agent and fire retardant in each formulation. In addition, the owner or operator shall retain onsite copies of Safety Data Sheets (SDS) for the raw materials used in the production of all products and production records indicating the amount of raw material used in each product.[N.J.A.C. 7:27-22.16(o)].	None.
13	Raw materials for normal production limited to Polymeric Isocyanate, Polyester Polyol, Polyol Flame Retardant Blend, Fire Retardant Additives, Organic Surfactant, Chemical Blowing Agent, Mechanical Blowing Agent, and Catalyst Blend. This applies to Operating Scenarios OS5-OS9. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator shall retain onsite copies of Safety Data Sheets (SDS) for the raw materials used in the production of all products and production records indicating the amount of raw material used in each product.[N.J.A.C. 7:27-22.16(o)].	None.
14	Raw materials for reformulation trial production limited to Polymeric Isocyanate, Polyester Polyol, Polyol Flame Retardant Blend, Fire Retardant Additives, Silicone Surfactant, Organic Surfactant, Chemical Blowing Agent, Mechanical Blowing Agent, and Catalyst Blend. This applies to Operating Scenarios OS14-OS16. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator shall retain onsite copies of Safety Data Sheets (SDS) for the raw materials used in the production of all products and production records indicating the amount of raw material used in each product.[N.J.A.C. 7:27-22.16(o)].	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Total Material Transferred <= 14.77 lb per minute. Permittee's hourly throughput rate for blowing agent (Class A or B products). [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
16	Total Material Transferred <= 3,890 tons/yr. Permittee's annual throughput limit per any 12 consecutive months for blowing agent (Class A or B products) based on 8,760 hours per year. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring continuously measured at the pour head (E2). [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
17	Total Material Transferred <= 7.37 lb per minute. Permittee's throughput rate for fire retardant (Class A or B products). [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
18	Total Material Transferred <= 1,938 tons/yr. Permittee's annual throughput limit per any 12 consecutive months for fire retardant (Class A or B products) based on 8,760 hours per year. Applies to Operating Scenarios for manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring continuously measured at the pour head (E2). [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
19	Heater fuel limited to Natural Gas. Applies to Operating Scenarios OS6 and OS7. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Maximum Gross Heat Input <= 2 MMBTU/hr (HHV). Maximum heat input for each curing oven heater based on Fuel Burner rated capacity. Applies to Operating Scenarios OS6 and OS7. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate. [N.J.A.C. 7:27-22.16(o)].	None.
21	Natural Gas Usage <= 17.2 MMft ³ /yr. Annual fuel (Natural Gas) use limit for each oven, per any 12 consecutive months. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. The owner or operator shall install and operate a fuel totalizer to monitor the total amount of fuel burned for any 12 consecutive months. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The cubic feet per any consecutive 12-month period shall be calculated by 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. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	Hours of Operation <= 120 hr/yr. Maximum allowable hours of operation for the testing of new product formulations. Applies to Operating Scenarios OS14, OS15 & OS16. [N.J.A.C. 7:27-22.16(a)]	None.	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall record and maintain the following information whenever operation for the testing of new product formulations occurs. 1. The reason for testing; 2. The date of operation and the startup and shutdown time; 3. The total operating time for testing during the 12 consecutive month period; and 4. The name of the operator. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Emission Unit: U2 Pour Head and Curing Ovens**Operating Scenario:** OS5 E2 - Board Forming Product Class A or B at the Pour Head - Carbon Beds (CD3), PT8

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Operation under this operating scenario must be controlled by carbon adsorber CD3. See Control Device CD3 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD3 for details. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.667 lb/hr. Maximum emission rate based on the manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See applicable requirement in OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See applicable requirement in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See applicable requirement in OS Summary. [N.J.A.C. 7:27-22.16(o)]
3	TSP <= 0.2 lb/hr. Maximum emission rate based on the manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.2 lb/hr. Maximum emission rate based on the manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-2.5 (Total) <= 0.2 lb/hr. Maximum emission rate based on the manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U2 Pour Head and Curing Ovens**Operating Scenario:** OS6 E3 - Oven Heater, Zone #1, Product Class A or B, 2.0 MMBTU/hr, Natural Gas, PT4, OS7 E4 - Oven Heater, Zone #2, Product Class A or B, 2.0 MMBTU/hr, Natural Gas, PT5

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.011 lb/hr. Maximum emission rate based on the manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 0.2 lb/hr. Maximum emission rate based on the manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.05 lb/hr. Maximum emission rate based on the manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.16 lb/hr. Maximum emission rate based on the manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U2 Pour Head and Curing Ovens**Operating Scenario:** OS8 E15 - Process Oven Zone #1 Product Class A or B, PT2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.15 lb/hr. Maximum emission rate based on the manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See applicable requirement in OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See applicable requirement in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See applicable requirement in OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	TSP <= 0.05 lb/hr. Maximum emission rate based on the manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U2 Pour Head and Curing Ovens**Operating Scenario:** OS9 E16 - Process Oven Zone #2 Product Class A or B, PT3

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.569 lb/hr. Maximum emission rate based on the manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See applicable requirement in OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See applicable requirement in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See applicable requirement in OS Summary. [N.J.A.C. 7:27-22.16(o)]
2	TSP <= 0.05 lb/hr. Maximum emission rate based on the manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U2 Pour Head and Curing Ovens

Operating Scenario: OS14 E2 - Pour Head - Board Forming of test formulation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Operation under this operating scenario must be controlled by carbon adsorber CD3. See Control Device CD3 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD3 for details. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.05 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.2 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.2 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-2.5 (Total) <= 0.2 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U2 Pour Head and Curing Ovens**Operating Scenario:** OS15 E15 - Zone 1 Oven - Product Test Formulation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.718 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	TSP <= 0.05 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U2 Pour Head and Curing Ovens**Operating Scenario:** OS16 E16 - Zone 2 Oven - Product Test Formulation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.326 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	TSP <= 0.05 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

Subject Item: CD2 Edge Trim Collector

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Pressure Drop ≥ 0.5 and Pressure Drop ≤ 10 psia for baghouse, CD2. Applies to Operating Scenarios OS9-OS13, OS15-OS19 and OS21-OS26. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously, based on a 1 hour block average. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. An alarm or other operational warning system shall be installed and shall be designed to sound when pressure drop less than or greater than the permitted operating range are detected at any time. Pressure drop of 10 psia will trigger an alarm system. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Keep a copy of the manufacturer's specifications for the life of the control device. [N.J.A.C. 7:27-22.16(o)]	None.
2	The facility shall monitor for pico amps using a Baghouse Performance analyzer & Controller. Applies to Operating Scenarios OS9-OS13, OS15-OS19 and OS21-OS26. [N.J.A.C. 7:27-22.16(a)]	Monitored by parametric monitoring system continuously. At 300 pico amps the system shall alarm and the operator shall conduct a baghouse system check. At 400 pico amps the baghouse and process shall proceed to an operator initiated shutdown mode if the baghouse is not functioning properly. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. The operator shall keep records of all baghouse system checks and inspections. [N.J.A.C. 7:27-22.16(o)]	None.
3	The owner or operator shall inspect and maintain the dust collector and replace the filter media on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once every 2 weeks. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once every 2 weeks. Record each inspection and maintenance event in a bound logbook or readily accessible computer memory. Keep a copy of the manufacturer's specifications for the life of the control device. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

Subject Item: CD3 Activated Carbon Bed Adsorption

The requirements for this item are identical to those for: U2 CD3

BOP190001

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

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

Subject Item: CD4 MJ and Offline Collector

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall inspect and maintain the dust collector and replace the filter media on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once every 2 weeks. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once every 2 weeks. Record each inspection and maintenance event in a bound logbook or readily accessible computer memory. Keep a copy of the manufacturer's specifications for the life of the control device. [N.J.A.C. 7:27-22.16(o)]	None.
2	Pressure Drop ≥ 0.3 and Pressure Drop ≤ 2.2 inches w.c. for cartridge particulate filter, CD4. Applies to Operating Scenarios OS14, OS20 and OS27. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. An alarm or other operational warning system shall be installed and shall be designed to sound when pressure drop less than or greater than the permitted operating range are detected at any time. Pressure drop of 2.2 inches of w.c. will trigger an alarm system. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Keep a copy of the manufacturer's specifications for the life of the control device. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

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. Applies to Operating Scenarios OS19-OS25. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period.</p> <p>Applies to Operating Scenarios OS9-OS18, OS26, and OS27. [N.J.A.C. 7:27-22.16(a)]</p>	<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.
4	<p>Particulate Emissions \leq 0.6 lb/hr. Maximum allowable emission rate based on source gas emission rate (standard cubic feet per minute) and 0.02 grains per standard cubic foot for stack PT8.</p> <p>Applies to Operating Scenarios OS9-OS13, OS15-OS19, and OS21-OS23. [N.J.A.C. 7:27- 6.2(a)]</p>	None.	None.	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>Particulate Emissions \leq 1.26 lb/hr. Maximum allowable emission rate based on source gas emission rate (standard cubic feet per minute) and 0.02 grains per standard cubic foot for stack PT9.</p> <p>Applies to Operating Scenarios OS14, OS20, and OS24. [N.J.A.C. 7:27- 6.2(a)]</p>	None.	None.	None.
6	<p>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)]</p>	<p>Other: Calculations and/or test data used to determine actual emission rate for each process or process records. 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. 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. [N.J.A.C. 7:27-22.16(o)].</p>	<p>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:</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. 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. <p>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)1] and [N.J.A.C. 7:27-16.22(a)].</p>	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	VOC (Total) <= 4.81 tons/yr. Annual emission limit per any 12 consecutive months based on the manufacturing of Class A or B products for a maximum of 8,760 hours of operation per year and the testing of new formulations for a maximum of 120 hours per year from BOP120002 . [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The owner or operator shall calculate the monthly emissions for each product using the equation in attachment item #2. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
8	TSP <= 15.03 tons/yr. Annual emission limit per any 12 consecutive months based on 8,760 hours of operation per year and the testing of new formulations for a maximum of 120 hours per year. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
9	PM-10 (Total) <= 15.03 tons/yr. Annual emission limit per any 12 consecutive months based on 8,760 hours of operation per year and the testing of new formulations for a maximum of 120 hours per year. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
10	PM-2.5 (Total) <= 15.03 tons/yr. Annual emission limit per any 12 consecutive months based on 8,760 hours of operation per year and the testing of new formulations for a maximum of 120 hours per year. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	VOC (Total) <= 5 % by weight. Material limited to VOC emitting compounds that are not a HAP as defined at 40 CFR 63.1(a)(2) (Class A or Class B) with a concentration of VOC >= 5% by weight for Operating Scenarios OS5-OS9. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall calculate the percentage of blowing agent and fire retardant for each formulation once initially for each product based on Safety Data Sheets (SDS) for the raw materials used in production and the production records indicating the amount of raw materials used in each product.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator will maintain copies of the calculations showing the percentage of blowing agent and fire retardant in each formulation. In addition, the owner or operator shall retain onsite copies of Safety Data Sheets (SDS) for the raw materials used in the production of all products and production records indicating the amount of raw material used in each product.[N.J.A.C. 7:27-22.16(o)].	None.
12	Raw materials for normal production limited to Polymeric Isocyanate, Polyester Polyol, Polyol Flame Retardant Blend, Fire Retardant Additives, Organic Surfactant, Chemical Blowing Agent, Mechanical Blowing Agent, and Catalyst Blend. This applies to Operating Scenarios OS9-OS14, OS21-OS23 and OS27. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator shall retain onsite copies of Safety Data Sheets (SDS) for the raw materials used in the production of all products and production records indicating the amount of raw material used in each product.[N.J.A.C. 7:27-22.16(o)].	None.
13	Raw materials for reformulation trial production limited to Polymeric Isocyanate, Polyester Polyol, Polyol Flame Retardant Blend, Fire Retardant Additives, Silicone Surfactant, Organic Surfactant, Chemical Blowing Agent, Mechanical Blowing Agent, and Catalyst Blend. This applies to Operating Scenarios OS15-OS20 and OS24-OS26. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator shall retain onsite copies of Safety Data Sheets (SDS) for the raw materials used in the production of all products and production records indicating the amount of raw material used in each product.[N.J.A.C. 7:27-22.16(o)].	None.
14	Total Material Transferred <= 14.77 lb per minute. Permittee's hourly throughput rate for blowing agent (Class A or B products). [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
15	Total Material Transferred <= 3,890 tons/yr. Permittee's annual throughput limit per any 12 consecutive months for blowing agent (Class A or B products) based on 8,760 hours per year. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring continuously measured at the pour head (E2). [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Total Material Transferred <= 7.37 lb per minute. Permittee's throughput rate for fire retardant (Class A or B products). [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
17	Total Material Transferred <= 1,938 tons/yr. Permittee's annual throughput limit per any 12 consecutive months for fire retardant (Class A or B products) based on 8,760 hours per year. Applies to Operating Scenarios for manufacturing of product Class A or Class B. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring continuously measured at the pour head (E2). [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
18	Hours of Operation <= 120 hr/yr. Maximum allowable hours of operation for the testing of new formulations. Applies to Operating Scenarios OS15, OS16, OS17, OS18, OS19, OS20, OS24, OS25 & OS26. [N.J.A.C. 7:27-22.16(a)]	None.	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall record and maintain the following information whenever operation for the testing of new product formulations occurs. 1. The reason for testing; 2. The date of operation and the startup and shutdown time; 3. The total operating time for testing during the 12 consecutive month period; and 4. The name of the operator. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

Operating Scenario: OS9 E5 - Edge Trim Saw #1 - Product Class A or B, Baghouse and Carbon Bed (CD2 & CD3), PT8, OS10 E7 - Edge Trim Saw #2 - Product Class A or B, Baghouse and Carbon Bed (CD2 & CD3), PT8, OS11 E8 - Shiplap Saw #1 - Product Class A or B, Baghouse and Carbon Bed (CD2 & CD3), PT8, OS12 E9 - Shiplap Saw #2 - Product Class A or B, Baghouse and Carbon Bed (CD2 & CD3), PT8

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Operation under this operating scenario must be controlled by baghouse filter CD2. See Control Device CD2 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD2 for details. [N.J.A.C. 7:27-22.16(o)]
2	Operation under this operating scenario must be controlled by carbon adsorber CD3. See Control Device CD3 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD3 for details. [N.J.A.C. 7:27-22.16(o)]
3	VOC (Total) <= 0.343 lb/hr. Maximum combined emission rate based on the manufacturing of products Class A and Class B for Operating Scenarios OS9 through OS12 and OS21 through OS23. [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.
4	TSP <= 0.64 lb/hr. Maximum emission rate based on the manufacturing of products Class A and Class B. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	TSP: 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.
5	PM-10 (Total) <= 0.64 lb/hr. Maximum emission rate based on the manufacturing of products Class A and Class B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.64 lb/hr. Maximum emission rate based on the manufacturing of products Class A and Class B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

Operating Scenario: OS13 E10 - Bemis Cutter - Product Class A or B, Baghouse and Carbon Bed (CD2 & CD3), PT8

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Operation under this operating scenario must be controlled by baghouse filter CD2. See Control Device CD2 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD2 for details. [N.J.A.C. 7:27-22.16(o)]
2	Operation under this operating scenario must be controlled by carbon adsorber CD3. See Control Device CD3 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD3 for details. [N.J.A.C. 7:27-22.16(o)]
3	VOC (Total) < 0.05 lb/hr (below reporting threshold). Maximum emission rate based on stack data from sister plant. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.056 lb/hr. Maximum emission rate based on AP-42. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Keep records for life of equipment. [N.J.A.C. 7:27-22.16(o)]	None.
5	PM-10 (Total) <= 0.056 lb/hr. Maximum emission rate based on AP-42. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Keep records for life of equipment. [N.J.A.C. 7:27-22.16(o)]	None.
6	PM-2.5 (Total) <= 0.056 lb/hr. Maximum emission rate based on AP-42. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Keep records for life of equipment. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

Operating Scenario: OS14 E11 - Cross Cut Saws - Product Class A or B, Cartridge Filter (CD4), PT9

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Operation under this operating scenario must be controlled by cartridge filter CD4. See Control Device CD4 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD4 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD4 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD4 for details. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.48 lb/hr. Maximum emission rate based on stack data from sister plant. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.085 lb/hr. Maximum emission rate based on AP-42. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Keep records for life of equipment. [N.J.A.C. 7:27-22.16(o)]	None.
4	PM-10 (Total) <= 0.085 lb/hr. Maximum emission rate based on AP-42. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Keep records for life of equipment. [N.J.A.C. 7:27-22.16(o)]	None.
5	PM-2.5 (Total) <= 0.085 lb/hr. Maximum emission rate based on AP-42. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Keep records for life of equipment. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

Operating Scenario: OS15 E5 - Edge Trim Saw #1 - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8, OS16 E7 - Edge Trim Saw #2 - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8, OS17 E8 - Shiplap Saw #1 - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8, OS18 E9 - Shiplap Saw #2 - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Operation under this operating scenario must be controlled by baghouse filter CD2. See Control Device CD2 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD2 for details. [N.J.A.C. 7:27-22.16(o)]
2	Operation under this operating scenario must be controlled by carbon adsorber CD3. See Control Device CD3 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD3 for details. [N.J.A.C. 7:27-22.16(o)]
3	VOC (Total) <= 0.05 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.64 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.64 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.64 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

Operating Scenario: OS19 E10 - Bemis Cutter - Product Test Formulation, PT7

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Operation under this operating scenario must be controlled by baghouse filter CD2. See Control Device CD2 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD2 for details. [N.J.A.C. 7:27-22.16(o)]
2	Operation under this operating scenario must be controlled by carbon adsorber CD3. See Control Device CD3 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD3 for details. [N.J.A.C. 7:27-22.16(o)]
3	VOC (Total) <= 0.05 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

Operating Scenario: OS20 E11 - Cross Cut Saws - Product Test Formulation, PT7

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Operation under this operating scenario must be controlled by cartridge filter CD4. See Control Device CD4 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD4 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD4 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD4 for details. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.351 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.05 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

Operating Scenario: OS21 E12 - Compactor #1 for Waste Foam Board, Baghouse and Carbon Bed (CD2 & CD3), PT8, OS22 E13 - Compactor #2 for Waste Foam Board, Baghouse and Carbon Bed (CD2 & CD3), PT8, OS23 E14 - Cavity Cut Saws, Product Class A or B, Baghouse and Carbon Bed (CD2 & CD3), PT8

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Operation under this operating scenario must be controlled by baghouse filter CD2. See Control Device CD2 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD2 for details. [N.J.A.C. 7:27-22.16(o)]
2	Operation under this operating scenario must be controlled by carbon adsorber CD3. See Control Device CD3 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD3 for details. [N.J.A.C. 7:27-22.16(o)]
3	VOC (Total) <= 0.343 lb/hr. Maximum combined emission rate based on the manufacturing of products Class A and Class B for Operating Scenarios OS9 through OS12 and OS21 through OS23. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. Maximum emission rate based on the manufacturing of products Class A and Class B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws
Operating Scenario: OS24 E12 - Compactor #1 - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8, OS25 E13 - Compactor #2 - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Operation under this operating scenario must be controlled by baghouse filter CD2. See Control Device CD2 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD2 for details. [N.J.A.C. 7:27-22.16(o)]
2	Operation under this operating scenario must be controlled by carbon adsorber CD3. See Control Device CD3 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD3 for details. [N.J.A.C. 7:27-22.16(o)]
3	VOC (Total) <= 0.05 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

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

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

Operating Scenario: OS26 E14 -Cavity Cut Saws - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Operation under this operating scenario must be controlled by baghouse filter CD2. See Control Device CD2 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD2 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD2 for details. [N.J.A.C. 7:27-22.16(o)]
2	Operation under this operating scenario must be controlled by carbon adsorber CD3. See Control Device CD3 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD3 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD3 for details. [N.J.A.C. 7:27-22.16(o)]
3	VOC (Total) <= 0.05 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.64 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.64 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.64 lb/hr. Maximum emission rate based on the testing of new formulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP190001

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U3 Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

Operating Scenario: OS27 E17 - Offline Cutting Equipment, Cartridge Filter (CD4), PT9

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Operation under this operating scenario must be controlled by cartridge filter CD4. See Control Device CD4 for applicable requirements. [N.J.A.C. 7:27-22.16(a)]	Other: See CD4 for details.[N.J.A.C. 7:27-22.16(o)].	Other: See CD4 for details.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See CD4 for details. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 0.27 lb/hr. Maximum emission rate based on area concentrations measured by a hand held meter. [N.J.A.C. 7:27-22.16(a)]	Other: Measure area concentration using a hand held meter 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. Keep records for life of equipment. [N.J.A.C. 7:27-22.16(o)]	None.
3	TSP <= 0.085 lb/hr. Maximum emission rate based on AP-42. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Keep records for life of equipment. [N.J.A.C. 7:27-22.16(o)]	None.
4	PM-10 (Total) <= 0.085 lb/hr. Maximum emission rate based on AP-42. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Keep records for life of equipment. [N.J.A.C. 7:27-22.16(o)]	None.
5	PM-2.5 (Total) <= 0.085 lb/hr. Maximum emission rate based on AP-42. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Keep records for life of equipment. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Emission Unit: U4 Product Packaging Conveyors**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.
3	Particulate Emissions <= 1.87 lb/hr. Maximum allowable emission rate based on source gas emission rate (standard cubic feet per minute) and 0.02 grains per standard cubic foot for stack PT10. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.

BOP190001

**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 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: Calculations and/or test data used to determine actual emission rate for each process or process records. 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. 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. [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. 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)1] and [N.J.A.C. 7:27-16.22(a)].	None.
5	VOC (Total) <= 1.59 tons/yr. Annual emission limit per any 12 consecutive months based on 8,760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

BOP190001

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

Emission Unit: U4 Product Packaging Conveyors**Operating Scenario:** OS1 E18 - Packaging Conveyors, PT10

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP < 0.05 lb/hr (below reporting threshold). Maximum emission rate based on AP-42. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Keep records for life of equipment. [N.J.A.C. 7:27-22.16(o)]	None.
2	VOC (Total) <= 0.36 lb/hr. Maximum emission rate based on area concentrations measured by a hand held meter. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by other method (provide description) at the approved frequency. Measure area concentration using a hand held meter 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. Keep records for life of equipment. [N.J.A.C. 7:27-22.16(o)]	None.

DDP SPECIALTY ELECTRONIC MATERIALS US, INC. (51572)
BOP190001

New Jersey Department of Environmental Protection
Facility Specific Requirements (Attachment)

Item #1

Subject Item: U2, OS Summary, Ref. #6

Applicable Requirement	Explanation
N.J.A.C. 7:27-22.16(o)	The owner or operator shall calculate the monthly emissions for each product using the equation below

$$E = \sum_{n=1}^{11} H_n (EF_{PH_n} + EF_{OV1_n} + EF_{OV2_n})$$

where:

E = Total Emissions for the month

H_n = Hours of Operation for the month

EF_{PH_n} = Emission Factor for Pour Head by product

EF_{OV1_n} = Emission Factor for Oven 1 by product

EF_{OV2_n} = Emission Factor for Oven 2 by product

n = Product Description (1 through 11)

Emission Factors in lbs/hr:

<u>Product</u>	<u>Pour Head</u>	<u>Oven 1</u>	<u>Oven 2</u>
1	0.0187	0.97	0.441
2	0.0187	0.97	0.441
3	0.0187	0.97	0.441
4	0.0187	0.97	0.441
5	0.0187	0.97	0.441
6	0.0187	0.97	0.441
7	0.0187	0.97	0.441
8	0.0187	0.97	0.441
9	0.0187	0.97	0.441
10	0.0187	0.97	0.441
11	0.0187	0.97	0.441

DDP SPECIALTY ELECTRONIC MATERIALS US, INC. (51572)**BOP190001****New Jersey Department of Environmental Protection
Facility Specific Requirements (Attachment)****Item #2****Subject Item: U3, OS Summary, Ref. #7**

Applicable Requirement	Explanation
N.J.A.C. 7:27-22.16(o)	The owner or operator shall calculate the monthly emissions for each product using the equation below

$$E = \sum_{n=1}^{11} H_n (EF_{TS_n} + EF_{SS_n} + EF_{BE_n} + EF_{CR_n} + EF_{CO_n} + EF_{CA_n})$$

where:

E = Total Emissions for the month

H_n = Hours of Operation for the monthEF_{TSn} = Emission Factor for Trim Saws by productEF_{SSn} = Emission Factor for Shiplap Saws by productEF_{BE_n} = Emission Factor for Bemis by productEF_{CRn} = Emission Factor for Cross Cut Saws by productEF_{CO_n} = Emission Factor for Compactors by productEF_{CA_n} = Emission Factor for Cavity Cut Saws by product

n = Product Description (1 through 11)

Emission Factors in lbs/hr:

<u>Product</u>	<u>Trim Saws</u>	<u>Shiplap Saws</u>	<u>Bemis</u>	<u>Cross Cut</u>	<u>Compactors</u>	<u>Cavity Cut</u>
1	0.0248	0.0139	0.0592	0.0592	0.0108	0.0033
2	0.0248	0.0139	0.0592	0.0592	0.0108	0.0033
3	0.0248	0.0139	0.0592	0.0592	0.0108	0.0033
4	0.0248	0.0139	0.0592	0.0592	0.0108	0.0033
5	0.0248	0.0139	0.0592	0.0592	0.0108	0.0033
6	0.0248	0.0139	0.0592	0.0592	0.0108	0.0033
7	0.0248	0.0139	0.0592	0.0592	0.0108	0.0033
8	0.0248	0.0139	0.0592	0.0592	0.0108	0.0033
9	0.0248	0.0139	0.0592	0.0592	0.0108	0.0033
10	0.0248	0.0139	0.0592	0.0592	0.0108	0.0033
11	0.0248	0.0139	0.0592	0.0592	0.0108	0.0033

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): DDP Specialty Electronics Materials US, Inc.

Facility ID (AIMS): 51572

Street 1500 JOHN TIPTON BLVD
Address: 1500 JOHN TIPTON BLVD
PENNSAUKEN, NJ 08110

Mailing 1500 JOHN TIPTON BLVD
Address: 1500 JOHN TIPTON BLVD
PENNSAUKEN, NJ 08110

County: Camden

Location Manufacturing of rigid form board insulation
Description:

State Plane Coordinates:

X-Coordinate: 750,218

Y-Coordinate: 395,857

Units: Long/Lat

Datum: Unknown

Source Org.: Other/Unknown

Source Type: Hard Copy Map

Industry:

Primary SIC: 3086

Secondary SIC:

NAICS: 325211

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

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

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

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

Contact Type: Owner (Current Primary)

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Email: jim.j.sheridan@dupont.com

Contact Type: Responsible Party

Organization: DDP Specialty Electronic Materials US, Inc. **Org. Type:** Corporation
Name: DDP Specialty Electronic Materials US **NJ EIN:** 45445444444
Title: DDP Specialty Electronic Materials US
Phone: (856) 910-4900 x **Mailing Address:** 1500 John Tipton Blvd.
Fax: (856) 910-4917 x Pennsauken, NJ 08110
Other: () - x
Type:
Email:

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	Maintenance (Filter, Valve, Piping, Instrument Changes)	Production area	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
FG2	Product Storage/Curing Emissions	Warehouse & Outdoor Storage	8.795	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
Total			8.801	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1	Space Heaters (21) Combusting Natural Gas (Each Unit < 1 MMBTU/hr Heat Input)	Fuel Combustion Equipment (Other)	Various	0.106	1.816	0.778	0.011	0.148	0.148	0.000	0.00000000	0.000
IS2	Emergency Diesel Engine - Fire Pump- 165 hp (< 1 MMBTU/hr Heat Input), Subject to MACT Subpart ZZZZ	Emergency Generator	Pump House	0.100	1.280	0.280	0.085	0.090	0.090	0.000	0.00000000	0.000
IS3	Diesel Engine - Diesel Oil Tank - 250 gal.	GP-Non-Floating Roof Storage Tank	Pump House	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
Total				0.306	3.096	1.058	0.096	0.238	0.238	0.000	0.00000000	0.000

BOP190001

**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
E2	E2	Pour Head	Manufacturing and Materials Handling Equipment	BOP010001		No	6/2/2000	
E3	E3	Zone #1 Heater	Fuel Combustion Equipment (Other)	BOP010001	6/1/2001	No	10/20/1992	
E4	E4	Zone #2 Heater	Fuel Combustion Equipment (Other)	BOP010001	6/1/2001	No	10/20/1992	
E5	E5	Trim Saw #1	Manufacturing and Materials Handling Equipment	BOP010001		No	6/2/2000	ES1
E7	E7	Trim Saw #2	Manufacturing and Materials Handling Equipment	BOP010001		No	6/2/2000	ES1
E8	E8	Shiplap Saw #1	Manufacturing and Materials Handling Equipment	BOP010001		No	6/2/2000	ES1
E9	E9	Shiplap Saw #2	Manufacturing and Materials Handling Equipment	BOP010001		No	6/2/2000	ES1
E10	E10	Bemis	Manufacturing and Materials Handling Equipment	BOP020001		No		
E11	E11	Cross Cut Saws	Manufacturing and Materials Handling Equipment	BOP020001		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
E12	E12	Compactor #1	Manufacturing and Materials Handling Equipment		1/1/2000	No	1/1/2000	
E13	E13	Compactor #2	Manufacturing and Materials Handling Equipment		1/1/2000	No	1/1/2000	
E14	E14	Cavity Cut Saws	Manufacturing and Materials Handling Equipment	BOP130002		No		
E15	E15	Zone #1 Oven	Manufacturing and Materials Handling Equipment	BOP130002		No		
E16	E16	Zone #2 Oven	Manufacturing and Materials Handling Equipment	BOP130002		No		
E17	E17	Offline Bemis	Manufacturing and Materials Handling Equipment	BOP150002		No		
E18	E18	Packaging Conveyors	Manufacturing and Materials Handling Equipment	BOP150002		No		

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E2 (Manufacturing and Materials Handling Equipment)

Make:	
Manufacturer:	Dow
Model:	Shop fabricated
Type of Manufacturing and Materials Handling Equipment:	Combining of components and board forming.
Capacity:	1.23E+04
Units:	other units
Description (if other):	lbs,chemicals/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:	Location diagram on file at DEP.

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E3 (Fuel Combustion Equipment (Other))
Print Date: 9/7/2022

Make:	Lanly
Manufacturer:	Lanly
Model:	6598
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	2.00
Type of Heat Exchange:	Direct
Equipment Type Description:	curing ovens, natural gas fired

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

☐ Yes
☒ No

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

☐ Yes
☒ No

Comments:

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

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E4 (Fuel Combustion Equipment (Other))
Print Date: 9/7/2022

Make:	Lanly
Manufacturer:	Lanly
Model:	6598
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	2.00
Type of Heat Exchange:	Direct
Equipment Type Description:	curing ovens, natural gas fired

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

☐ Yes
☒ No

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

☐ Yes
☒ No

Comments:

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

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E5 (Manufacturing and Materials Handling Equipment)

Make:	
Manufacturer:	Mereen-Johnson Machine Company
Model:	435-H
Type of Manufacturing and Materials Handling Equipment:	Rotary saw for trimming of foam board.
Capacity:	1.23E+04
Units:	other units
Description (if other):	lbs/hr (excludes facer & FG scrim)
Have you attached a diagram showing the location and/or the 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:	Location diagram on file at DEP.

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E7 (Manufacturing and Materials Handling Equipment)

Make:	
Manufacturer:	Mereen-Johnson Machine Company
Model:	435-H
Type of Manufacturing and Materials Handling Equipment:	Rotary saw for trimming of foam board.
Capacity:	1.23E+04
Units:	other units
Description (if other):	lbs/hr (excludes facer & FG scrim)
Have you attached a diagram showing the location and/or the 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:	Location diagram is on file at DEP.

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E8 (Manufacturing and Materials Handling Equipment)

Make:	
Manufacturer:	Grainger
Model:	
Type of Manufacturing and Materials Handling Equipment:	Rotary saw for trimming of foam board.
Capacity:	1.23E+04
Units:	other units
Description (if other):	lbs/hr (excludes facer & FG scrim)
Have you attached a diagram showing the location and/or the 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:	Location diagram on file at DEP.

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E9 (Manufacturing and Materials Handling Equipment)

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text" value="Grainger"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Saw"/>
Capacity:	<input type="text" value="1.23E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lbs/hr (excludes facer & FG scrim)"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text"/>
Comments:	

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E10 (Manufacturing and Materials Handling Equipment)

Make:	Bemis
Manufacturer:	Unico, Inc.
Model:	W-210-10
Type of Manufacturing and Materials Handling Equipment:	Flying Cut-Off System
Capacity:	1.23E+04
Units:	other units ▼
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	The capacity excludes facer & FG scrim. Note that Thiele Technologies purchased this technology. Replacement parts are purchased through Thiele Technologies under High Speed Traveling Knife Series 15000-56.

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E11 (Manufacturing and Materials Handling Equipment)

Make:	
Manufacturer:	Mereen Johnson Machine Co.
Model:	MJ-2540
Type of Manufacturing and Materials Handling Equipment:	Rotating knife blade
Capacity:	1.23E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	The capacity excludes facer & FG scrim.

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E12 (Manufacturing and Materials Handling Equipment)

Make:	<input type="text" value="Rudco"/>
Manufacturer:	<input type="text" value="Rudco"/>
Model:	<input type="text" value="RP-400"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Compactor"/>
Capacity:	<input type="text" value="2.00E-01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="Tons/Hour"/>
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:	

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E13 (Manufacturing and Materials Handling Equipment)

Make:	<input type="text" value="Rudco"/>
Manufacturer:	<input type="text" value="Rudco"/>
Model:	<input type="text" value="RP-400"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Compactor"/>
Capacity:	<input type="text" value="2.00E-01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="Tons/Hour"/>
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:	

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E14 (Manufacturing and Materials Handling Equipment)

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Dow"/>
Model:	<input type="text" value="Shop fabricated"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Saw"/>
Capacity:	<input type="text" value="1.23E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="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:	

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E15 (Manufacturing and Materials Handling Equipment)

Make:	
Manufacturer:	Lanly Electric Curing Oven
Model:	6598
Type of Manufacturing and Materials Handling Equipment:	Combining of components and board forming.
Capacity:	1.23E+04
Units:	other units
Description (if other):	lbs,chemicals/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:	Location diagram on file at DEP.

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E16 (Manufacturing and Materials Handling Equipment)

Make:	
Manufacturer:	Lanly Electric Curing Oven
Model:	6598
Type of Manufacturing and Materials Handling Equipment:	Combining of components and board forming.
Capacity:	1.23E+04
Units:	other units
Description (if other):	lbs,chemicals/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:	Location diagram on file at DEP.

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E17 (Manufacturing and Materials Handling Equipment)

Make:	
Manufacturer:	Dow
Model:	Shop Manufactured
Type of Manufacturing and Materials Handling Equipment:	Offline cutting equipment
Capacity:	4.80E+01
Units:	other units
Description (if other):	Ft/Minute
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:	Equipment was shop manufactured and data is not available.

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 E18 (Manufacturing and Materials Handling Equipment)

Make:	<input type="text" value="Lantech"/>
Manufacturer:	<input type="text" value="Lantech Inc."/>
Model:	<input type="text" value="Standard Duty Powered Pallet Conveyor"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Isofoam Insulation"/>
Capacity:	<input type="text" value="3.00E+01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="Feet 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:	<input shrink="" type="text" unit."="" value="This is a standard conveyor used to move finished product from the produciton line to the packaging \" wrap\"=""/>

DDP SPECIALTY ELECTRONIC MATERIALS US, INC. (51572)
BOP190001

Date: 11/17/2022

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
CD2	CD2	Edge Trim Collector	Particulate Filter (Baghouse)		No		
CD3	CD3	Activated Carbon Bed Adsorption	Adsorber		No		
CD4	CD4	MJ and Offline Collector	Particulate Filter (Cartridge)		No		

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 CD2 (Particulate Filter (Baghouse))
Print Date: 9/7/2022

Make:	
Manufacturer:	Carter-Day
Model:	Type CS
Number of Bags:	144
Size of Bags (ft ²):	15.97
Total Bag Area (ft ²):	2,300.0
Bag Fabric:	Polyester
Fabric Weight (oz/ft ²):	16.00
Fabric Weave:	Felt
Fabric Finish:	
Maximum Design Temperature Capability (°F):	250.0
Maximum Design Air Flow Rate (acfm):	15,000.0
Draft Type:	Forced
Maximum Air Flow Rate to Cloth Area Ratio:	6.50
Minimum Operating Pressure Drop (in. H ₂ O):	4.00
Maximum Operating Pressure Drop (in. H ₂ O):	8.00
Method of Monitoring Pressure Drop:	Magnehelic Gauge
Maximum Inlet Temperature (°F):	100.0
Minimum Inlet Temperature (°F):	50.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	15,000.0
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	
Method for Determining When Cleaning is Required:	Timer
Method of Bag Cleaning:	Reverse Air
Description:	
Is Bag Cleaning Conducted On-Line?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	6
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Visual observation
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 CD2 (Particulate Filter (Baghouse))
Print Date: 9/7/2022

Have you attached data from recent performance testing?

☐ Yes ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

☐ Yes ☒ No

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

☐ Yes ☒ No

Comments:

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 CD3 (Adsorber)
Print Date: 9/7/2022

Make:	Calgon Carbon/ Vara Technologies
Manufacturer:	Calgon Carbon / Vara Technologies
Model:	N/A - Vara Solvent Recover
Adsorber Type:	O1
Description:	Activated Carbon Bed Adsorption
Maximum Gas Flow Rate to Adsorber (acfm):	4200
Maximum Temperature of Vapor Stream to Adsorber (°F):	100
Minimum Temperature of Vapor Stream to Adsorber (°F):	50
Minimum Moisture Content of Vapor Stream to Adsorber (%):	30
Type of Adsorbant:	activated carbon
Bed Height:	3.5
Bed Length:	8
Bed Width:	8
Units:	Feet
Other Bed Dimension:	circular bed; values are diameter
Value:	8
Units:	ft
Minimum Pressure Drop Across Adsorbant (in. H2O):	12
Maximum Pressure Drop Across Adsorber (in. H2O):	22
Total Weight of Adsorbant (lbs):	4000
Total Weight of Adsorbant When Saturated (lbs):	6800
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	900
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	225
Set-up Type:	Parallel
Method of Determining Breakthrough (check all that apply):	
Continuous Emissions Monitor (CEM):	<input type="checkbox"/>
Replacement By Weight:	<input type="checkbox"/>
Periodic Testing:	<input type="checkbox"/>
Sampling Frequency:	
Sampling Device:	
Other:	<input type="checkbox"/>
Description:	
Minimum Concentration at Breakthrough (ppmvd):	5
Handling Method of Saturated Adsorbant:	Regenerated on-site
Method of Regeneration:	Steam on-site

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 CD3 (Adsorber)
Print Date: 9/7/2022

Maximum Number of Sources
Using this Apparatus as a Control
Device (Include Permitted and
Non-Permitted Sources):

5

Alternative Method to Demonstrate
Control Apparatus is Operating
Properly:

Initial stack test, proper regeneration and
maintenance of carbon beds

Have you attached data from
recent performance testing?

☐ Yes ☒ No

Have you attached any
manufacturer's data or
specifications in support of the
feasibility and/or effectiveness of
this control apparatus?

☐ Yes ☒ No

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

☐ Yes ☒ No

Comments:

information is preliminary and subject to change

51572 DDP SPECIALTY ELECTRONIC MATERIALS US, INC. BOP190001 CD4 (Particulate Filter (Cartridge))

Print Date: 9/7/2022

Make:	<input type="text" value="Camfil"/>
Manufacturer:	<input type="text" value="Camfil"/>
Model:	<input type="text" value="Durafil ES, Farr 30/30"/>
Number of Cartridges:	<input type="text" value="11"/>
Size of Cartridges (ft²):	<input type="text" value="89.64"/>
Total Cartridge Area (ft²):	<input type="text" value="986.00"/>
Maximum Design Temperature Capability (°F):	<input type="text" value="160.0"/>
Maximum Design Air Flow Rate (acfm):	<input type="text" value="11,500.0"/>
Maximum Air Flow Rate to Filter Area Ratio:	<input type="text" value="11.66"/>
Minimum Operating Pressure Drop (in. H2O):	<input type="text" value="0.30"/>
Maximum Operating Pressure Drop (in. H2O):	<input type="text" value="2.20"/>
Maximum Inlet Temperature (°F):	<input type="text" value="100.0"/>
Maximum Operating Exhaust Gas Flow Rate (acfm):	<input type="text" value="11,500.0"/>
Method for Determining When Cartridge Replacement is Required:	<input type="text" value="Magnehelic Gauge"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text" value="2"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<input type="text" value="Visual Observation"/>
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" 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.		
PT2	PT2	CURING OVEN, ZONE #1 STACK	Round	12	30	150	250.0	250.0	250.0	1,800.0	1,800.0	4,000.0	Up	
PT3	PT3	CURING OVEN, ZONE #2 STACK	Round	12	30	210	250.0	250.0	250.0	1,800.0	1,800.0	4,000.0	Up	
PT4	PT4	Curing Oven, Heater #1 Stack	Round	9	30	140	500.0	500.0	500.0	1,800.0	1,800.0	4,000.0	Up	
PT5	PT5	Curing Oven, Heater #2 Stack	Round	9	30	200	500.0	500.0	500.0	1,800.0	1,800.0	4,000.0	Up	
PT8	PT8	Activated Carbon Bed Adsorber	Round	12	32	85	70.0	50.0	100.0	4,000.0	3,800.0	4,200.0	Up	
PT9	PT9	EF-100 Stack	Round	25	41	303	70.0	50.0	100.0	8,789.0	7,910.0	11,500.0	Up	
PT10	PT10	EF-101 Stack	Round	33	43	300	70.0	50.0	100.0	13,000.0	11,700.0	14,300.0	Up	

DDP SPECIALTY ELECTRONIC MATERIALS US, INC. (51572)
BOP190001

Date: 11/17/2022

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 2 Oven/Pouring Pour Head and Curing Ovens

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS5	Pour Head -a	E2 - Board Forming Product Class A or B at the Pour Head - Carbon Beds (CD3), PT8	Normal - Steady State	E2	CD3 (P)	PT8	3-08-999-99	500.0	8,760.0	A	1,800.0	4,000.0	200.0	275.0
OS6	Heater 1a	E3 - Oven Heater, Zone #1, Product Class A or B, 2.0 MMBTU/hr, Natural Gas, PT4	Normal - Steady State	E3		PT4	3-08-999-99	500.0	8,760.0	A	40.0	505.0	75.0	185.0
OS7	Heater 2a	E4 - Oven Heater, Zone #2, Product Class A or B, 2.0 MMBTU/hr, Natural Gas, PT5	Normal - Steady State	E4		PT5	3-08-999-99	500.0	8,760.0	A	40.0	505.0	75.0	185.0
OS8	Oven Zone 1a	E15 - Process Oven Zone #1 Product Class A or B, PT2	Normal - Steady State	E15		PT2	3-08-999-99	500.0	8,760.0	A	1,100.0	4,000.0	200.0	275.0
OS9	Oven Zone 2a	E16 - Process Oven Zone #2 Product Class A or B, PT3	Normal - Steady State	E16		PT3	3-08-999-99	500.0	8,760.0	A	1,100.0	4,000.0	200.0	275.0
OS14	Pour Head	E2 - Pour Head - Board Forming of test formulation	Normal - Steady State	E2	CD3 (P)	PT8	3-08-999-99	8.0	120.0	A	1,800.0	4,000.0	200.0	275.0
OS15	Oven Zone 1a	E15 - Zone 1 Oven - Product Test Formulation	Normal - Steady State	E15		PT2	3-08-999-99	8.0	120.0	A	1,100.0	4,000.0	200.0	275.0
OS16	Oven Zone 2a	E16 - Zone 2 Oven - Product Test Formulation	Normal - Steady State	E16		PT3	3-08-999-99	8.0	120.0	A	1,100.0	4,000.0	200.0	275.0

BOP190001

**New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory**

U 3 Cutting Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

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.
OS9	Trim Saw 1-a	E5 - Edge Trim Saw #1 - Product Class A or B, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E5	CD2 (P) CD3 (P)	PT8	3-08-999-99	500.0	8,760.0	A	3,750.0	15,000.0	50.0	100.0
OS10	Trim Saw 2-a	E7 - Edge Trim Saw #2 - Product Class A or B, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E7	CD2 (P) CD3 (P)	PT8	3-08-999-99	500.0	8,760.0	A	3,750.0	15,000.0	50.0	100.0
OS11	Shiplap 1-a	E8 - Shiplap Saw #1 - Product Class A or B, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E8	CD2 (P) CD3 (P)	PT8	3-08-999-99	500.0	8,760.0	A	3,750.0	15,000.0	50.0	100.0
OS12	Shiplap 2-a	E9 - Shiplap Saw #2 - Product Class A or B, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E9	CD2 (P) CD3 (P)	PT8	3-08-999-99	500.0	8,760.0	A	3,750.0	15,000.0	50.0	100.0
OS13	Bemis -a	E10 - Bemis Cutter - Product Class A or B, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E10	CD2 (P) CD3 (P)	PT8	3-08-999-99	500.0	8,760.0	A	33,000.0	33,000.0	50.0	100.0
OS14	Cross Cut -a	E11 - Cross Cut Saws - Product Class A or B, Cartridge Filter (CD4), PT9	Normal - Steady State	E11	CD4 (P)	PT9	3-08-999-99	500.0	8,760.0	A	33,000.0	33,000.0	50.0	100.0
OS15	Trim Saw 1-a	E5 - Edge Trim Saw #1 - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E5	CD2 (P) CD3 (P)	PT8	3-08-999-99	8.0	120.0	A	3,750.0	15,000.0	50.0	100.0
OS16	Trim Saw 2-a	E7 - Edge Trim Saw #2 - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E7	CD2 (P) CD3 (P)	PT8	3-08-999-99	8.0	120.0	A	3,750.0	15,000.0	50.0	100.0

DDP SPECIALTY ELECTRONIC MATERIALS US, INC. (51572)
BOP190001

Date: 11/17/2022

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 3 Cutting Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

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.
OS17	Shiplap 1-a	E8 - Shiplap Saw #1 - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E8	CD2 (P) CD3 (P)	PT8	3-08-999-99	8.0	120.0	A	3,750.0	15,000.0	50.0	100.0
OS18	Shiplap 2-a	E9 - Shiplap Saw #2 - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E9	CD2 (P) CD3 (P)	PT8	3-08-999-99	8.0	120.0	A	3,750.0	15,000.0	50.0	100.0
OS19	Bemis - a	E10 - Bemis Cutter - Product Test Formulation, PT7	Normal - Steady State	E10	CD2 (P) CD3 (P)	PT8	3-08-999-99	8.0	120.0	A	3,750.0	15,000.0	50.0	100.0
OS20	Cross Cut- a	E11 - Cross Cut Saws - Product Test Formulation, PT7	Normal - Steady State	E11	CD4 (P)	PT9	3-08-999-99	8.0	120.0	A	7,910.0	11,500.0	50.0	100.0
OS21	Compactor #1	E12 - Compactor #1 for Waste Foam Board, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E12	CD2 (P) CD3 (P)	PT8	3-08-999-99	100.0	8,760.0	A	3,750.0	15,000.0	50.0	100.0
OS22	Compactor #2	E13 - Compactor #2 for Waste Foam Board, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E13	CD2 (P) CD3 (P)	PT8	3-08-999-99	100.0	8,760.0	A	3,750.0	15,000.0	50.0	100.0
OS23	Cavity -a	E14 - Cavity Cut Saws, Product Class A or B, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E14	CD2 (P) CD3 (P)	PT8	3-08-999-99	500.0	8,760.0	A	3,750.0	15,000.0	50.0	100.0
OS24	Compactor #1	E12 - Compactor #1 - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E12	CD2 (P) CD3 (P)	PT8	3-08-999-99	8.0	120.0	A	3,750.0	15,000.0	50.0	100.0

BOP190001

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U 3 Cutting Cutting Operations, including Trim Saws, Shiplap Saws, Bemis, Crosscut Saws, Compactors, and Cavity Cut Saws

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.
OS25	Compactor #2	E13 - Compactor #2 - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E13	CD2 (P) CD3 (P)	PT8	3-08-999-99	8.0	120.0	A	3,750.0	15,000.0	50.0	100.0
OS26	Cavity Cut-a	E14 -Cavity Cut Saws - Product Test Formulation, Baghouse and Carbon Bed (CD2 & CD3), PT8	Normal - Steady State	E14	CD2 (P) CD3 (P)	PT8	3-08-999-99	8.0	120.0	A	3,750.0	15,000.0	50.0	100.0
OS27	Offline	E17 - Offline Cutting Equipment, Cartridge Filter (CD4), PT9	Normal - Steady State	E17	CD4 (P)	PT9	3-08-999-99	500.0	8,760.0	A	7,910.0	11,500.0	50.0	100.0

U 4 Packaging Product Packaging Conveyors

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Packaging	E18 - Packaging Conveyors, PT10	Normal - Steady State	E18		PT10	3-08-999-99	500.0	8,760.0	A	11,700.0	14,300.0	50.0	100.0