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: BOP210001 **Program Interest Number: 51609**

Mailing Address	Plant Location
JOHN FIORE, JR. VP - ASSET MGMT & DEV VV9000 LLC 1 BELMONT AVE - STE 520 BALA CYNWYD, PA 19004	9000 RIVER ROAD 9000 River Rd Pennsauken Camden County

Initial Operating Permit Approval Date: **March 28, 2002**

Operating Permit Approval Date: **PROPOSED**

Operating Permit Expiration Date: **PROPOSED**

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 Alexander Sung at (609) 633-8239.

Approved by:

_____

Art Lehberger

Enclosure

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

Facility Name: 9000 RIVER ROAD
Program Interest Number: 51609
Permit Activity Number: BOP210001

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Section A

Facility Name: 9000 RIVER ROAD
Program Interest Number: 51609
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POLLUTANT EMISSIONS SUMMARY

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

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO_x	CO	SO_2	TSP (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs* (total)	CO_2e[2]
Emission Units Summary	N/A	N/A	N/A	N/A	17.7	17.7	17.7	N/A	5.31	
Batch Process Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Group Summary	0.66	12.0	10.1	N/A	0.91	0.91	0.91	N/A	0.0092	
Total Emissions	0.66	12.0	10.1	N/A	18.6	18.6	18.6	N/A	5.32	1,545

Table 2: Estimate of total emissions from all Insignificant Source Operations[1] and total emissions from Non-Source Fugitives at the facility.

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO_x	CO	SO_2	TSP (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs (total)
Insignificant Source Operations	4.06	9.06	2.25	0.05	0.98	0.98	0.98	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
NOx: Nitrogen Oxides
CO: Carbon Monoxide
SO_2: Sulfur Dioxide
TSP: Total Suspended Particulates
Other: Any other air contaminant regulated under the Federal CAA
PM_{10}: Particulates under 10 microns
$PM_{2.5}$: Particulates under 2.5 microns
Pb: Lead
HAPs: Hazardous Air Pollutants
CO_2e: Carbon Dioxide equivalent
N/A: Indicates the pollutant is not emitted or is emitted below the reporting threshold specified in N.J.A.C. 7:27-22, Appendix, Table A and N.J.A.C. 7:27-17.9(a).

*Emissions of individual HAPs are provided in Table 3 on the next page.
Emissions of "Other" air contaminants are provided in Table 4 on the next page.

[1] Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C. 7:27-22.1.
[2] Total CO_2e emissions for the facility.
[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: 9000 RIVER ROAD
Program Interest Number: 51609
Permit Activity Number: BOP210001

POLLUTANT EMISSIONS SUMMARY

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

HAP	TPY
Arsenic	0.000024
Cadmium	0.00013
Cobalt	0.00001
Dimethylbenz(a)anthracene (7,12-)	0.0000019
Formaldehyde	0.009
Hydrogen Chloride	3.16
Hydrogen Fluoride	2.15
Dioxins/Furans (TEQ)	0.00000115

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

Other Air Contaminant	TPY
Fluorides	0.025

[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: 9000 RIVER ROAD
Program Interest Number: 51609
Permit Activity Number: BOP210001

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)]

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: 9000 RIVER ROAD
Program Interest Number: 51609
Permit Activity Number: BOP210001

STATE-ONLY APPLICABLE REQUIREMENTS

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

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

SECTION	SUBJECT ITEM	ITEM #	REF. #
B	---	1	---
B	---	10b	---
D	FC	---	3
D	FC	---	9

Section D

Facility Name: 9000 RIVER ROAD
Program Interest Number: 51609
Permit Activity Number: BOP210001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

U24	Group 1 Furn	Two Melting Furnaces, Two Melting/Holding Furnaces	65
U25	Oven	Aging Oven 1315	88
U26	2 Boilers	Two 6.275 MMBTU/hr NG Fired Boilers	90
U29	Rapid Heat	Two 3.85 MMBTU/hr Rapid Heating Systems	97
U45	2DoAlls	Two 25,000 lb/hr DoAll Bandsaws (E208 and E209)	99
U90	Etch Tank	Aluminum Anodizing Line	103

9000 RIVER ROAD (51609)
BOP210001

Date: 6/20/2022

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 210002

Description of Modifications: This Title V Operating Permit Renewal contains the following changes:
-Subject Item GR1 was added, which establishes a facility-wide natural gas usage limit for all combustion significant source operations in U1, U2, U11, U15, U16, U23, U24, U25 and U26

-HAP emission limits were added to GR1, U1, U2, U11, U15, U16, U23, U24, U25 and U26 for all HAPS due to natural gas combustion which exceed emissions reporting thresholds contained in N.J.A.C. 7:27-17.

-Annual potential hydrogen chloride emissions were reduced from 16.12 tpy to 3.16 tpy for U24 Group 1 Furnaces. For U24 OS7, OS9, OS11 and OS13, the hydrogen chloride emission limits were reduced from 3.68 lb/hr to 0.74 lb/hr and from 0.40 lb per ton of feed/charge to 0.08 lb per ton of feed/charge based on the most recent stack test results in TST150001.

-Annual potential hydrogen fluoride emissions were reduced from 16.12 tpy to 2.15 tpy for U24 Group 1 Furnaces. For U24 OS7, OS9, OS11 and OS13, the hydrogen fluoride emission limits were reduced from 3.68 lb/hr to 0.51 lb/hr and from 0.40 lb per ton of feed/charge to 0.055 lb per ton of feed/charge based on the most recent stack test results in TST150001.

-Fuel oil operating scenarios were removed from U23 Group 2 Furnace and U24 Group 1 Furnaces.

-The following pieces of equipment were removed:
E1 - 4.4 MMBTU/hr Billet Furnace
E54 - 7.2 MMBTU/hr Billet Furnace
E300 - 9 MMBTU/hr Billet Furnace
E301 - 7.531 MMBTU/hr Billet Furnace
E3 - 4.62 MMBTU/hr Make-up air heater
E10 - 3.78 MMBTU/hr Make-up air heater
E51 - 5.5 MMBTU/hr Aging Oven
E56 - 2.5 MMBTU/hr Aging Oven
E63 - 4.5 MMBTU/hr Aging Oven
E58 - 2.2 MMBTU/hr Space Heater
E64 - 1.2 MMBTU/hr Space Heater
E58 - 2.2 MMBTU/hr Space Heater
E216 - 1.675 MMBTU/hr Space Heater
E217 - 2.24 MMBTU/hr Space Heater
E218 - 2.24 MMBTU/hr Space Heater
E9 - 3 MMBTU/hr Drying Oven
E17 - 1 MMBTU/hr Heat Cleaning Oven
E46 - 6.275 MMBTU/hr Boiler
E47 - 6.275 MMBTU/hr Boiler
E74 - 3.85 MMBTU/hr Rapid Heating System
E239-E244 Welders

9000 RIVER ROAD (51609)
BOP210001

Date: 6/20/2022

New Jersey Department of Environmental Protection
Reason for Application

-CD300 Baghouse, controlling E303 and E304, was added to the permit. It was previously accidentally removed.

-An initial performance test requirement was added for U24 because the U24 furnaces are currently out of operation and the last performance test was more than 5 years ago.

-For federal emission limits from 40 CFR 63 Subpart RRR in U24 OS7, OS9, OS11 and OS13, language was added, specifying that compliance with these limits shall be measured prior to the baghouse inlet because the permittee must demonstrate that the baghouses are not needed to meet the emission limits to not be subject to bag leak detection requirements.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **FC**

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

New Jersey Department of Environmental Protection
Facility Specific Requirements

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

New Jersey Department of Environmental Protection
Facility Specific Requirements

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

New Jersey Department of Environmental Protection
Facility Specific Requirements

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

New Jersey Department of Environmental Protection
Facility Specific Requirements

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

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1 Natural Gas and Liquid Propane Fired Space and Water Heaters (<1 MMBTU/hr)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period no longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS2 Distillate Fuel Oil (Including Kerosene) Storage Tanks (<10,000 gallons, < 0.02 psia)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [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 used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS3 Unheated VOC Degreasers (Top Opening <= 6 sq. feet & Capacity <= 100 gallons)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The machine shall have (1) a freeboard ratio of 0.75 or greater and (2) a visible fill line and high level liquid mark. [N.J.A.C. 7:27-16.6(j)1i]	None.	None.	None.
2	The machine shall have a permanent, conspicuous label placed in a prominent location on the machine. The label shall list the operating requirements specified in N.J.A.C 7:27-16.6(j)2. [N.J.A.C. 7:27-16.6(j)1ii]	None.	None.	None.
3	The machine shall be equipped with a tightly fitting working-mode cover that completly covers the machine's opening and that shal be kept closed at all times except when parts are being placed into or being removed from the machine or when solvent is being added or removed. For a remote reservoir cold cleaning machine which drains directly into the solvent storage reservoir, a perforated drain with a diameter or not more than six inches shall constitue an acceptable cover. [N.J.A.C. 7:27-16.6(j)1iii]	None.	None.	None.
4	The solvent level in the machine shall not exceed the fill line when there are no parts in the machine for cleaning and shall not exceed the high level liquid mark during cleaning operations. [N.J.A.C. 7:27-16.6(j)2i]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Flushing of parts with a solvent spray, using a spray head attached to a flexible hose or other flushing device, shall be performed only within the freeboard are of the machine. The solvent spray shall be a continuous fluid stream, not an atomized or shower spray, and shall be under a pressure that does not exceed ten pounds per square inch gauge. [N.J.A.C. 7:27-16.6(j)ii]	None.	None.	None.
6	Parts being cleaned shall be drained for at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts shall be positioned so that solvent drains directly back into the machine. [N.J.A.C. 7:27-16.6(j)2iii]	None.	None.	None.
7	When the machine's cover is open, the machine shall not be exposed to drafts greater than 40 meters per minute (132 feet per minute) as measured between one and two meters (between 3.3 and 6.6 feet) upwind and at the same elevation as the tank lip. [N.J.A.C. 7:27-16.6(j)2iv]	None.	None.	None.
8	Sponges, fabric, leather, paper products and other adsorbent materials shall not be cleaned in the machine. [N.J.A.C. 7:27-16.6(j)2v]	None.	None.	None.
9	When a pump-agitated solvent bath is used, the agitator shall be operated to produce a rolling motion of the solvent with no observable splashing of solvent against the tank walls or the parts being cleaned. Air agitated solvent baths shall not be used. [N.J.A.C. 7:27-16.6(j)2vi]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Spills during solvent transfer and use of the machine shall be cleaned up immediately, and the wipe rags or other sorbent material used shall be immediately stored in covered containers for disposal or recycling. [N.J.A.C. 7:27-16.6(j)2vii]	None.	None.	None.
11	Waste solvent shall be collected and stored in a closed container. The closed container may contain a device that allows pressure relief, provided that it does not allow liquid solvent to drain from the container. [N.J.A.C. 7:27-16.6(j)2viii]	None.	None.	None.
12	Work area fans shall be located and positioned so that they do not blow across the opening of the degreaser unit. [N.J.A.C. 7:27-16.6(j)2ix]	None.	None.	None.
13	If the machine is a heated cleaning machine, the solvent shall be maintained at a temperature that is below its boiling point. [N.J.A.C. 7:27-16.6(j)2x]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	No person shall use any solvent that has a vapor pressure of one millimeter of mercury or greater, measured at 20 degrees centigrade (68 degrees Fahrenheit). [N.J.A.C. 7:27-16.6(j)3]	None.	. The permittee shall maintain, for not less than two years after the date of purchase of solvent for use in the machine, the information specified below and shall, upon the request of the Department or its representative, provide the information to the Department: 1. The name and address of the person selling the solvent. An invoice, bill of sale, or a certificate that corresponds to a number of sales, if it has the seller's name and address on it, may be used to satisfy this requirement; 2. A list of VOC(s) and their concentration information in the solvent; 3. Information about each VOC. A Safety Data Sheet (SDS) may be used to satisfy this requirement; 4. The solvent's product number assigned by the manufacturer; and 5. The vapor pressure of the solvent measured in millimeters of mercury at 20 degrees Celsius (68 degrees Fahrenheit). Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-16.6(j)4]	None.
15	No halogenated solvents are to be used in this equipment. [N.J.A.C. 7:27-22.16(a)]	Monitored by formulation data per change of material. At the time of filling, confirm using MSDS or bill of lading. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis per change of material. [N.J.A.C. 7:27-22.16(o)]	None.
16	The machine shall have a freeboard height of 6 inches or higher. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS4 Manufacturing Equipment, Including Cooling Towers (Raw Material Process Rate <50 lb/hr)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	Cooling tower treatment chemicals shall not contailn hexavalent chromium. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by invoices / bills of lading / certificate of analysis per change of material. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS5 Touchup spray paint booth (Coating Usage <0.5 gal/hr, <2.5 gal/day)**

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. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	The owner or operator shall not apply any individual surface coating in excess of one half gallon per hour and two and one half gallon per day [N.J.A.C. 7:27-16.7(e)]	Other: The owner or operator shall monitor the surface coating operations to ensure compliance.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall maintain readily accessible records sufficient enough to demonstrate compliance.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS6 (4) Emergency Generators combusting natural gas or propane (< 1 MMBTU/hr)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63 Subpart A 40 CFR 63 Subpart ZZZZ [40 CFR Federal Rules Summary]	None.	None.	None.
2	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	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: 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or 3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously. In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour). 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 and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information: 1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month), and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs. 2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 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. The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]	None.

IS6 (4) Emergency Generators combusting natural gas or propane (< 1 MMB

New Jersey Department of Environmental Protection
Facility Specific Requirements

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

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The owner or operator of an emergency or black start SI RICE <= 500 HP constructed or reconstructed before June 12, 2006 shall change oil and filter every 500 hours of operation or annually, whichever comes first, as prescribed in Table 2c, item 6a to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6602]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. The owner or operator 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(j). 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.
6	The owner or operator of an emergency or black start SI RICE <= 500 HP constructed or reconstructed before June 12, 2006 shall inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary, as prescribed in Table 2c, item 6b and 6c to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6602]	Other: The owner or operator shall inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. 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.
7	The engine must be in compliance with all applicable emission limitations and operating limitations in Subpart ZZZZ of 40 CFR 63 at all times. [40 CFR 63.6605(a)]	None.	None.	None.
8	At all times the owner or operator must operate and maintain a RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.

IS6 (4) Emergency Generators combusting natural gas or propane (< 1 MMB

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	An owner or operator of existing emergency or black start SI RICE <= 500 HP constructed or reconstructed before June 12, 2006 must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or the owner or operator must develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]	Other: Monitored according to the manufacturer's emission-related written instructions or the maintenance plan developed by the owner or operator.[40 CFR 63.6625(e)].	Other: The owner or operator must keep records of the maintenance procedures. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1).[40 CFR 63.6655(e)].	None.
10	The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]	Other: 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	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. [40 CFR 63.6640(f)(2)(i)]	. The owner or operator of an emergency stationary internal combustion engine must install a nonresettable hour meter if one is not already installed. Monitored by hour/time monitor continuously. [40 CFR 63.6625(f)]	. 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. Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [40 CFR 63.6655(f)(1)]	None.
12	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 SI RICE <= 500 HP constructed or reconstructed before June 12, 2006 and located at a major source of HAP. [40 CFR 63.6665]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS7 (2) 20,000 gallon Distillate Fuel Oil (including up to 10% Kerosene) Storage Tanks (>10,000 gallons, < 0.02 psia)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [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 used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.
3	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank or vessel shall not be subject to any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank or vessel, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The tank's or vessel's potential to emit each TXS and each HAP shall not exceed the reporting thresholds at N.J.A.C. 7:27-17.9(a). [N.J.A.C. 7:27-22.1]	None.	None.	None.
9	The percentage by weight of all HAPs collectively in the raw material stored in the tank, or mixed or blended in the vessel, shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7-27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank or vessel meets the above applicable requirements and (3) attests that the tank or vessel is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **GR1 Facility-wide natural gas usage limitation and facility-wide emissions from combustion sources**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.66 tons/yr for all significant combustion sources at the facility combined. Based on the facility-wide maximum annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 12 tons/yr for all significant combustion sources at the facility combined. Based on the facility-wide maximum annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 10.08 tons/yr for all significant combustion sources at the facility combined. Based on the facility-wide maximum annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.91 tons/yr for all significant combustion sources at the facility combined. Based on the facility-wide maximum annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.91 tons/yr for all significant combustion sources at the facility combined. Based on the facility-wide maximum annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.91 tons/yr for all significant combustion sources at the facility combined. Based on the annual PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Arsenic Emissions <= 0.000024 tons/yr for all significant combustion sources at the facility combined. Based on the facility-wide maximum annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Cadmium Emissions <= 0.00013 tons/yr for all significant combustion sources at the facility combined. Based on the facility-wide maximum annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Cobalt Emissions <= 0.00001 tons/yr for all significant combustion sources at the facility combined. Based on the facility-wide maximum annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Dimethylbenz(a)anthracene (7,12-) <= 0.0000019 tons/yr for all significant combustion sources at the facility combined. Based on the facility-wide maximum annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Formaldehyde <= 0.009 tons/yr for all significant combustion sources at the facility combined. Based on the facility-wide maximum annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	HAPs (Total) <= 0.0092 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Natural Gas Usage <= 240 MMft^3 per each consecutive 12 month period. Combined for all combustion significant sources at the facility. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall sum the natural gas usage for each significant combustion source at the facility. [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. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 Four Billet Furnaces Used to Heat and Extrude Aluminum (NG Fired)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR1 for the Facility-Wide Natural Gas Usage Limit requirement. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for three minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	Furnace fuel use is limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 0.66 tons/yr for all Billet furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 12 tons/yr for all Billet furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 10.08 tons/yr for all Billet furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.91 tons/yr for all Billet furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.91 tons/yr for all Billet furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.91 tons/yr for all Billet furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Arsenic compounds <= 0.000022 tons/yr for OS6, OS8 and OS11 billet furnaces combined. Based on the sum of annual fuel usage limits for each billet furnace with emissions above reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Cadmium compounds <= 0.00013 tons/yr for all Billet furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Cobalt compounds <= 0.0000094 tons/yr for OS6, OS8 and OS11 billet furnaces combined. Based on the sum of annual fuel usage limits for each billet furnace with emissions above reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Dimethylbenz(a)anthracene (7,12-) <= 0.0000019 tons/yr for all Billet furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Formaldehyde <= 0.009 tons/yr for all Billet furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	HAPs (Total) <= 0.0092 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 Four Billet Furnaces Used to Heat and Extrude Aluminum (NG Fired)**
Operating Scenario: **OS2 5.5 MMBTU/hr Billet Furnace 1302 (E13)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.54 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Cadmium compounds <= 0.0000059 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Dimethylbenz(a)anthracene (7,12-) <= 8.6E-8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Formaldehyde <= 0.0004 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Maximum Gross Heat Input <= 5.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
11	Natural Gas Usage <= 47.2 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 Four Billet Furnaces Used to Heat and Extrude Aluminum (NG Fired)**
Operating Scenario: **OS6 9.76 MMBTU/hr Billet Furnace 662 (E44)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	No visible emissions, exclusive of visible water vapor, except for three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation. Conduct visual inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the visible emisssions problem is not corrected within 24 hours, a certified opacity reader shall perform an opacity observation, in accordance with N.J.A.C. 7:27B-2. Conduct opacity observations, in accordance with N.J.A.C. 7:27B-2, each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment: (4) Observed results and conclusions: (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and ((8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.96 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 0.07 lb/hr based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Arsenic compounds <= 0.0000019 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Cadmium compounds <= 0.000011 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Cobalt compounds <= 8.0E-7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Dimethylbenz(a)anthracene (7,12-) <= 1.5E-7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Formaldehyde <= 0.00072 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Maximum Gross Heat Input <= 9.76 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(a)].	None.
15	Natural Gas Usage <= 83.8 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 Four Billet Furnaces Used to Heat and Extrude Aluminum (NG Fired)**
Operating Scenario: **OS8 8.65 MMBTU/hr Billet Furnace 1903 (E70)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	No visible emissions, exclusive of visible water vapor, except for three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation. Conduct visual inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the visible emisssions problem is not corrected within 24 hours, a certified opacity reader shall perform an opacity observation, in accordance with N.J.A.C. 7:27B-2. Conduct opacity observations, in accordance with N.J.A.C. 7:27B-2, each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment: (4) Observed results and conclusions: (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and ((8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.85 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.71 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.06 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.06 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 0.06 lb/hr based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Arsenic compounds <= 0.0000017 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Cadmium compounds <= 0.0000093 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Cobalt compounds <= 7.1E-7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Dimethylbenz(a)anthracene (7,12-) <= 1.4E-7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Formaldehyde <= 0.00064 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Maximum Gross Heat Input <= 8.65 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
15	Natural Gas Usage <= 74.3 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 Four Billet Furnaces Used to Heat and Extrude Aluminum (NG Fired)**
Operating Scenario: **OS11 7.135 MMBTU/hr Billet Furnace (E302)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	No visible emissions, exclusive of visible water vapor, except for three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation. Conduct visual inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the visible emisssions problem is not corrected within 24 hours, a certified opacity reader shall perform an opacity observation, in accordance with N.J.A.C. 7:27B-2. Conduct opacity observations, in accordance with N.J.A.C. 7:27B-2, each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment: (4) Observed results and conclusions: (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and ((8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.25 lb/hr based on manufacturer's emission factor of 0.0355 lb/mmBtu. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records of manufacturer's NOx emission factor.[N.J.A.C. 7:27-22.16(o)].	None.
5	CO <= 0.59 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 0.05 lb/hr based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Arsenic compounds <= 0.0000014 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Cadmium compounds <= 0.0000077 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Cobalt compounds <= 5.9E-7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Dimethylbenz(a)anthracene (7,12-) <= 1.1E-7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Formaldehyde <= 0.00053 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Maximum Gross Heat Input <= 7.135 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
15	Natural Gas Usage <= 64.7 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 Make-up Air Heater**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR1 for the Facility-Wide Natural Gas Usage Limit requirement. [N.J.A.C. 7:27-22.16(a)]	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. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)]	None.	None.	None.
3	Fuel use for make-up heaters is limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 5.59 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 4.7 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Cadmium compounds <= 0.000022 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	HAPs (Total) <= 0.000022 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 Make-up Air Heater**
Operating Scenario: **OS1 4.62 MMBTU/hr Make-up Air Heater 601 (E2)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.77 lb/hr based on maximum heat input rate. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
2	NOx (Total) <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.38 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Cadmium compounds <= 0.000005 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum Gross Heat Input <= 4.62 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
7	Natural Gas Usage <= 39.7 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5 Confined Abrasive Blasting Equipment for Die Cleaning (Discharging into Building)**
Subject Item: **CD39 Cartridge Filter for Abrasive Blasting**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Differential Pressure >= 0.5 and Differential Pressure <= 6 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Differential Pressure: Monitored by pressure drop instrument continuously. The owner or operator shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Differential Pressure: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27-22.16(o)]	None.
2	Particulates Control Efficiency >= 99 %. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	The permittee shall conduct cartridge maintenance and replacement on a schedule necessary to achieve the required particulate removal efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Other: When the static pressure drop reaches the factory set setpoint, an automatic cleaning cycle is initiated. Pulsejet cleaning of the individual cartridge will stop only when the monitoring device signals the cartridge is operating at peak efficiency once again. The permittee shall visually inspect the cartridges according to the manufacturer's specifications.[N.J.A.C. 7:27-22.16(o)].	Other: Keep records of all maintenance and cartridge replacements performed.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5 Confined Abrasive Blasting Equipment for Die Cleaning (Discharging into Building)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per standard cubic foot of source gas. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity <= 20 % exclusive of visible water vapor, except for 3 minutes in any consecutive 30 minute period. [N.J.A.C. 7:27- 6.2(d)]	None.	None.	None.
3	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum abrasive usage <= 400 lb per minute (based on the maximum capacity of the machine). [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator shall retain on site, for the life of the equipmment, the maximum capacity of the machine. Acceptable records include equipment nameplate specifications, manufacturer's specifications, or engineering calculations.[N.J.A.C. 7:27-22.16(o)].	None.
5	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U7 Etch Plating with Fan Separator Scrubber**
Subject Item: **CD31 NaOH Scrubber**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Flowrate of Scrubbing Medium at Scrubber Inlet >= 20 gal/min. [N.J.A.C. 7:27-22.16(a)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27-22.16(o)]	None.
2	Scrubber maximum gas flowrate <= 37,000 acfm. Scrubber minimum gas flowrate >= 27,000 acfm. [N.J.A.C. 7:27-22.16(a)]	Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27-22.16(o)]	None.
3	Pressure Drop Across the Scrubber <= 1.5 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27-22.16(o)]	None.
4	The scrubber shall be equipped with a mist eliminator. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U7 Etch Plating with Fan Separator Scrubber**
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)]	None.	None.	None.
2	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Etching solution limited to NaOH. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U7 Etch Plating with Fan Separator Scrubber**
Operating Scenario: **OS1 4,700 lb/hr Aluminum Etch Plating Line (E8)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 6 lb/hr based on 0.02 grains per standard cubic foot of source gas. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Material Transferred <= 4,200 lb/hr. [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 manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U11 Four Aluminum Aging Ovens**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR1 for the Facility-Wide Natural Gas Usage Limit requirement. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for three minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	Fuel use in aging ovens is limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 0.21 tons/yr for OS6. Based on the annual fuel usage limit for OS6, the only aging oven with emissions above reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 6.97 tons/yr for all aging ovens combined. Based on the sum of annual natural gas limits for each aging oven combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 5.85 tons/yr for all aging ovens combined. Based on the sum of annual natural gas limits for each aging oven combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.29 tons/yr for OS6. Based on the annual fuel usage limit for OS6, the only aging oven with emissions above reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.29 tons/yr for OS6. Based on the annual fuel usage limit for OS6, the only aging oven with emissions above reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	PM-2.5 (Total) <= 0.29 tons/yr for OS6. Based on the annual fuel usage limit for OS6, the only aging oven with emissions above reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Total Production Rate <= 54,000 lb/batch. Maximum amount of material per batch, and the minimum time per batch is 10 hours. Applies to OS3, OS4, OS6 and OS7 individually. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Arsenic compounds <= 0.0000077 tons/yr for OS6. Based on the annual fuel usage limit for OS6, the only aging oven with emissions above reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Cadmium compounds <= 0.000077 tons/yr for all aging ovens combined. Based on the sum of annual natural gas limits for each aging oven combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Cobalt compounds <= 0.0000033 tons/yr for OS6. Based on the annual fuel usage limit for OS6, the only aging oven with emissions above reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Formaldehyde <= 0.0029 tons/yr for OS6. Based on the annual fuel usage limit for OS6, the only aging oven with emissions above reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Dimethylbenz(a)anthracene (7,12-) <= 6.2E-7 tons/yr for OS6. Based on the annual fuel usage limit for OS6, the only aging oven with emissions above reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	HAPs (Total) <= 0.003 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U11 Four Aluminum Aging Ovens**
Operating Scenario: **OS3 2.02 MMBTU/hr Aging Oven 158 (E59)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.17 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Cadmium compounds <= 0.0000022 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Maximum Gross Heat Input <= 2.02 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
8	Natural Gas Usage <= 17.3 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U11 Four Aluminum Aging Ovens**
Operating Scenario: **OS4 1.2 MMBTU/hr Aging Oven 538 (E62)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.12 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Cadmium compounds <= 0.0000013 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Maximum Gross Heat Input <= 1.2 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
8	Natural Gas Usage <= 10.3 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U11 Four Aluminum Aging Ovens**
Operating Scenario: **OS6 9 MMBTU/hr Aging Oven 1928 (E71)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.69 lb/hr based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	No visible emissions, exclusive of visible water vapor, except for three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation. Conduct visual inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the visible emisssions problem is not corrected within 24 hours, a certified opacity reader shall perform an opacity observation, in accordance with N.J.A.C. 7:27B-2. Conduct opacity observations, in accordance with N.J.A.C. 7:27B-2, each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment: (4) Observed results and conclusions: (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and ((8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.88 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 0.07 lb/hr based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Arsenic compounds <= 0.0000018 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Cadmium compounds <= 0.0000097 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Cobalt compounds <= 7.4E-7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Formaldehyde <= 0.00066 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Dimethylbenz(a)anthracene (7,12-) <= 1.4E-7 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Maximum Gross Heat Input <= 9 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
15	Natural Gas Usage <= 77.3 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U11 Four Aluminum Aging Ovens**
Operating Scenario: **OS7 4 MMBTU/hr Aging Oven 928 (E215)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.39 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.33 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Cadmium compounds <= 0.0000043 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Maximum Gross Heat Input <= 4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
8	Natural Gas Usage <= 34.4 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U13 Two Sulfuric Acid Treatment Tanks with Fan Separator Scrubber (E12 and E16)**
Subject Item: **CD2 H2SO4 Tank Scrubber**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Flowrate of Scrubbing Medium at Scrubber Inlet >= 20 gal/min. [N.J.A.C. 7:27-22.16(a)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27-22.16(o)]	None.
2	Particulates Control Efficiency >= 95 %. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	The scrubber shall be equipped with a mist eliminator. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U13 Two Sulfuric Acid Treatment Tanks with Fan Separator Scrubber (E12 and E16)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for three minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(d)]	None.	None.	None.
2	Particulate Emissions <= 2.74 lb/hr based on 0.02 grains per standard cubic foot of source gas. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
3	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Total SO3 + H2SO4 expressed as H2SO4 <= 10 milligrams/scf. [N.J.A.C. 7:27-7.2(g)1]	Other: When requested by the Department, the permittee shall conduct the tests specified at[N.J.A.C. 7:27- 7.2(h)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27- 7.2(h)]	None.
5	Total SO3 + H2SO4 expressed as H2SO4 <= 5.5 lb/hr in any 60-minute period. Total SO3 + H2SO4 expressed as H2SO4 <= 11.0 lb/hr in any instant. [N.J.A.C. 7:27-7.2(g)(2)]& [N.J.A.C. 7:27- 7.2(r)]	Other: When requested by the Department, the permittee shall conduct the tests specified at[N.J.A.C. 7:27- 7.2(h)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27- 7.2(h)]	None.
6	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Total SO3 + H2SO4 expressed as H2SO4 < 0.05 lb/hr [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Total Production Rate <= 4,200 lb/hr for each sulfuric acid tank. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records daily.[N.J.A.C. 7:27-22.16(o)].	Total Production Rate: Recordkeeping by production records once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U15 Seven Space Heaters.**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR1 for the Facility-Wide Natural Gas Usage Limit requirement. [N.J.A.C. 7:27-22.16(a)]	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. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)]	None.	None.	None.
3	Fuel use for the space heaters shall be limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 7.9 tons/yr for all space heaters combined. Based on the sum of annual natural gas limits for each space heater combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 6.64 tons/yr for all space heaters combined. Based on the sum of annual natural gas limits for each space heater combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Cadmium compounds <= 0.000087 tons/yr for all space heaters combined. Based on the sum of annual natural gas limits for each space heater combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	HAPs (Total) <= 0.000087 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U15 Seven Space Heaters.**
Operating Scenario: **OS1 3.5 MMBTU/hr Space Heater 1470 (E22)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.1 lb/hr based on the maximum heat input rate. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 3.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	NOx (Total) <= 0.34 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.29 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Cadmium compounds <= 0.0000038 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Natural Gas Usage <= 30.1 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U15 Seven Space Heaters.**
Operating Scenario: **OS2 2.24 MMBTU/hr Space Heater 727 (E23), OS3 2.24 MMBTU/hr Space Heater 728 (E24)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.34 lb/hr per heater, based on the maximum heat input rate. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	NOx (Total) <= 0.22 lb/hr per heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.18 lb/hr per heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP < 0.05 lb/hr per heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum Gross Heat Input <= 2.24 MMBTU/hr (HHV) per heater. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	Cadmium compounds <= 0.0000024 lb/hr per heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Natural Gas Usage <= 19.2 MMft^3 per each consecutive 12 month period per heater. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U15 Seven Space Heaters.**
Operating Scenario: **OS4 1.675 MMBTU/hr Space Heater 726 (E26), OS8 1.675 MMBTU/hr Space Heater 703 (E61)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1 lb/hr per heater, based on the maximum heat input rate. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	NOx (Total) <= 0.16 lb/hr per heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.14 lb/hr per heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP < 0.05 lb/hr per heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum Gross Heat Input <= 1.675 MMBTU/hr (HHV) per heater. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	Cadmium compounds <= 0.0000018 lb/hr per heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Natural Gas Usage <= 14.4 MMft^3 per each consecutive 12 month period, per heater. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U15 Seven Space Heaters.**
Operating Scenario: **OS5 4.62 MMBTU/hr Space Heater 600 (E52)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.77 lb/hr based on the maximum heat input rate. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	NOx (Total) <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.38 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum Gross Heat Input <= 4.62 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	Cadmium compounds <= 0.000005 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Natural Gas Usage <= 39.7 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U15 Seven Space Heaters.**
Operating Scenario: **OS6 2.45 MMBTU/hr Space Heater 1667 (E57)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.47 lb/hr based on the maximum heat input rate. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	NOx (Total) <= 0.24 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum Gross Heat Input <= 2.45 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
5	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Cadmium compounds <= 0.0000026 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Natural Gas Usage <= 21 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U16 Four homogenizing ovens (NG Fired)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR1 for the Facility-Wide Natural Gas Usage Limit requirement. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for a period of 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Fuel use for the ovens shall be limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 0.93 tons/yr for all homogenizing ovens combined. Based on the sum of annual natural gas limits for each homogenizing oven combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 2.16 tons/yr for all homogenizing ovens combined. Based on the sum of annual natural gas limits for each homogenizing oven combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Cadmium compounds <= 0.000028 tons/yr for all homogenizing ovens combined. Based on the sum of annual natural gas limits for each homogenizing oven combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	HAPs (Total) <= 0.000028 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U16 Four homogenizing ovens (NG Fired)**

Operating Scenario: **OS7 1.5 MMBTU/hr Homogenizing Oven, Firing NG (E307), OS8 1.5 MMBTU/hr Homogenizing Oven, Firing NG (E308), OS9 1.5 MMBTU/hr Homogenizing Oven, Firing NG (E309), OS10 1.5 MMBTU/hr Homogenizing Oven, Firing NG (E310)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr per oven, based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	NOx (Total) <= 0.05 lb/hr per oven, based on manufacturer's emission factor of 0.0355 lb/mmBtu. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records of manufacturer's NOx emission factor.[N.J.A.C. 7:27-22.16(o)].	None.
3	CO <= 0.12 lb/hr per oven. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP < 0.05 lb/hr per oven. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Cadmium compounds <= 0.0000016 lb/hr per oven. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum Gross Heat Input <= 1.5 MMBTU/hr (HHV) per oven. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
7	Natural Gas Usage <= 12.9 MMft^3 per each consecutive 12 month period, per oven. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U23 One Holding Furnace for Molten Aluminum**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63 Subpart A 40 CFR 63 Subpart RRR [40 CFR Federal Rules Summary]	None.	None.	None.
2	See Subject Item GR1 for the Facility-Wide Natural Gas Usage Limit requirement. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Direct fired "Group 2" furnace E38 was modified after February 14, 2012. It melts, holds, or processes only "clean charge" and performs fluxing using only non-reactive, non-HAP-containing/non-HAP-generating gases or agents. "In-line fluxers" are not used. For definitions of "Group 2" furnace, "clean charge" and "in-line fluxers" see [40 CFR 63.1503]. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Opacity <= 20 % , exclusive of condensed water vapor, except for a period of 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	No visible emissions, exclusive of visible water vapor, except for three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation. Conduct visual inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the visible emisssions problem is not corrected within 24 hours, a certified opacity reader shall perform an opacity observation, in accordance with N.J.A.C. 7:27B-2. Conduct opacity observations, in accordance with N.J.A.C. 7:27B-2, each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment: (4) Observed results and conclusions: (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and ((8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
6	Fuel use is limited to natural gas only. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	VOC (Total) <= 0.21 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 1.41 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	CO <= 3.13 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	TSP <= 0.28 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-10 (Total) <= 0.28 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-2.5 (Total) <= 0.28 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Arsenic compounds <= 0.0000075 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Cadmium compounds <= 0.000041 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Cobalt compounds <= 0.0000031 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Formaldehyde <= 0.0028 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Dimethylbenz(a)anthracene (7,12-) <= 6.0E-7 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	HAPs (Total) <= 0.0029 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	At all times, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.1506(a)(5)]	None.	Other: The permittee shall maintain records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.1506(a)(5), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.[40 CFR 63.1517(b)(18)(ii)].	None.
20	The owner or operator must provide and maintain easily visible labels posted at each group 2 furnace that identifies the applicable emission limits and means of compliance, including: (1) The type of affected source or emission unit; and (2) The applicable operational standard(s) and control method(s). This includes, but is not limited to, the type of charge to be used for a furnace, flux materials and addition practices, and the applicable operating parameter ranges and requirements as incorporated in the OM&M plan. [40 CFR 63.1506(b)]	Monitored by visual determination each month during operation. The owner or operator must inspect the labels for each group 2 furnace at least once per calendar month to confirm that posted labels are intact and legible. [40 CFR 63.1510(c)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep records of monthly inspections for proper unit labeling for each affected source and emission unit subject to labeling requirements. [40 CFR 63.1517(b)(13)]	None.
21	The owner or operator of a new or existing group 2 furnace must: (1) Operate each furnace using only clean charge as the feedstock; and (2) Operate each furnace using no reactive flux. [40 CFR 63.1506(o)]	None.	Other: Record a description of the materials charged to each furnace, including any nonreactive, non-HAP-containing/non-HAP-generating fluxing materials or agents.[40 CFR 63.1510(r)(1)].	Submit a report: As per the approved schedule. Submit a certification of compliance with the applicable operational standard for charge materials in 40 CFR 63.1506(o) for each 6-month reporting period. Each certification must contain the information in 40 CFR 63.1516(b)(2)(v). [40 CFR 63.1510(r)(2)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The owner or operator of a major or area source must submit semiannual reports according to the requirements in 40 CFR 63.10(e)(3). Except, the owner or operator must submit the semiannual reports within 60 days after the end of each 6-month period instead of within 30 days after the calendar half as specified in 40 CFR 63.10(e)(3)(v). When no deviations of parameters have occurred, the owner or operator must submit a report stating that no excess emissions occurred during the reporting period. The report must contain all of the applicable information specified in 40 CFR 63.1516(b). [40 CFR 63.1516(b)]	None.	None.	None.
23	The owner or operator of a secondary aluminum production facility shall comply with the applicable General Provisions in 40 CFR 63 Subpart A as listed in Appendix A to 40 CFR 63 Subpart RRR. [40 CFR 63.1518]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U23 One Holding Furnace for Molten Aluminum**
Operating Scenario: **OS1 9 MMBTU/hr Holding Furnace 1409 (E38), NG Fired**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.63 lb/hr based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.32 lb/hr based on manufacturer's emission factor of 0.0355 lb/mmBtu. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records of manufacturer's technical data and emission factors.[N.J.A.C. 7:27-22.16(o)].	None.
4	CO <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.07 lb/hr based on the PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Arsenic compounds <= 0.0000018 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Cadmium compounds <= 0.0000097 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Cobalt compounds <= 7.4E-7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Formaldehyde <= 0.00066 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Dimethylbenz(a)anthracene (7,12-) <= 1.4E-7 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Maximum Gross Heat Input <= 9 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Natural Gas Usage <= 74.57 MMft^3 per each consecutive 12 month period, based on 8286 hours of operation. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel usage totalizing meter continuously . [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U24 Two Melting Furnaces, Two Melting/Holding Furnaces**
Subject Item: **CD300 Dross Skimming 1 Baghouse, CD301 Dross Skimming 2 Baghouse**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Pressure Drop Across the Baghouse >= 0.5 and Pressure Drop Across the Baghouse <= 5 inches w.c. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop instrument continuously. The owner or operator shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
2	Particulates Control Efficiency >= 99 %. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U24 Two Melting Furnaces, Two Melting/Holding Furnaces**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63 Subpart A 40 CFR 63 Subpart RRR [40 CFR Federal Rules Summary]	None.	None.	None.
2	See Subject Item GR1 for the Facility-Wide Natural Gas Usage Limit requirement. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Direct fired Group 1 melting furnaces E303 and E304 were constructed after February 14, 2012. Operation is NOT limited to clean charge only. Non reactive flux is injected directly into the furnaces. In-line fluxers are not used Direct fired Group 1 melting / holding furnaces E305 and E306 were constructed after February 14, 2012. Operation is LIMITED to clean charge only. Non reactive flux is injected directly into the furnaces. In-line fluxers are not used. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	STACK TESTING SUMMARY The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for particulate matter, HCl, and HF as specified in the compliance plan for OS7, OS9, OS11 and OS13 and for dioxin/furans as specified in the compliance plan for OS7 and OS9. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]	Other: The stack test must be conducted either within 180 days from the date of the approved renewal operating permit BOP210001 or within 180 days after startup of the source or within 60 days of approval of a timely submitted protocol, whichever comes later. Stack tests must be conducted as described at 40 CFR 63.1511(b)(1)-(5) and using test methods listed at 40 CFR 63.1511(c).[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved renewal operating permit BOP210001. 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. 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)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	STACK TESTING SUMMARY The permittee shall conduct a stack test no later than five years from the previous stack test using an approved protocol to demonstrate compliance with emission limits for particulate matter, HCl, and HF as specified in the compliance plan for OS7, OS9, OS11 and OS13 and for dioxin/furans as specified in the compliance plan for OS7 and OS9. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	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 previous 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. 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)]
6	Opacity <= 20 % , exclusive of condensed water vapor, except for a period of 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	No visible emissions from PT303, PT304, PT311, PT312 and PT850, exclusive of visible water vapor, except for three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation. Conduct visual inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the visible emisssions problem is not corrected within 24 hours, a certified opacity reader shall perform an opacity observation, in accordance with N.J.A.C. 7:27B-2. Conduct opacity observations, in accordance with N.J.A.C. 7:27B-2, each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment: (4) Observed results and conclusions: (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and ((8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
8	Fuel use is limited to natural gas only [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) <= 0.66 tons/yr for all Group 1 furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	NOx (Total) <= 12 tons/yr for all Group 1 furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	CO <= 10.1 tons/yr for all Group 1 furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 8.95 tons/yr comprised as follows: 0.91 tpy "combustion" emissions, 7.76 tpy "melt" emissions and 0.28 tpy "dross" emissions (normal operations). Based on the facility-wide annual fuel usage limit, the PM emission limit per ton charged and the material throughput limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 8.95 tons/yr comprised as follows: 0.91 tpy "combustion" emissions, 7.76 tpy "melt" emissions and 0.28 tpy "dross" emissions (normal operations). Based on the facility-wide annual fuel usage limit, the PM emission limit per ton charged and the material throughput limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-2.5 (Total) <= 8.95 tons/yr comprised as follows: 0.91 tpy "combustion" emissions, 7.76 tpy "melt" emissions and 0.28 tpy "dross" emissions (normal operations). Based on the facility-wide annual fuel usage limit, the PM emission limit per ton charged and the material throughput limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	HCl Emissions <= 3.16 tons/yr , for E303, E304, E305 and E306 combined. Based on the HCl emission limit per ton charged and the material throughput limit. [N.J.A.C. 7:27-22.16(a)]	HCl Emissions: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Based upon the results from the most recent Department approved stack test and the total tons of feed processed in E303, E304, E305 and E306. [N.J.A.C. 7:27-22.16(o)]	HCl Emissions: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep records of the emissions for each month and each consecutive 12 month period. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Hydrogen fluoride <= 2.15 tons/yr , for E303, E304, E305 and E306 combined. Based on the HF emission limit per ton charged and the material throughput limit. [N.J.A.C. 7:27-22.16(a)]	Hydrogen fluoride: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Based upon the results from the most recent Department approved stack test and the total tons of feed processed in E303, E304, E305 and E306. [N.J.A.C. 7:27-22.16(o)]	Hydrogen fluoride: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep records of the emissions for each month and each consecutive 12 month period. [N.J.A.C. 7:27-22.16(o)]	None.
17	Dioxins/Furans (TEQ) <= 0.00000115 tons/yr for E303 and E304 combined. Based on the dioxins/furans emission limit per ton charged and the material throughput limit. [N.J.A.C. 7:27-22.16(a)]	Dioxins/Furans (TEQ): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Based upon the results from the most recent Department approved stack test and the total tons of feed processed in E303 and E304. [N.J.A.C. 7:27-22.16(o)]	Dioxins/Furans (TEQ): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep records of the emissions for each month and each consecutive 12 month period. [N.J.A.C. 7:27-22.16(o)]	None.
18	Arsenic compounds <= 0.000024 tons/yr for all Group 1 furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Cadmium compounds <= 0.000132 tons/yr for all Group 1 furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Cobalt compounds <= 0.00001 tons/yr for all Group 1 furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Dimethylbenz(a)anthracene (7,12-) <= 0.0000019 tons/yr for all Group 1 furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Formaldehyde <= 0.009 tons/yr for all Group 1 furnaces combined. Based on the facility-wide annual fuel usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	HAPs (Total) <= 5.32 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	The facility shall provide the Department, upon request, a certification from the aluminum ingots and scrap metal suppliers confirming no mercury is intentionally introduced into the furnaces. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by certification analysis from each supplier per shipment.[N.J.A.C. 7:27-22.16(o)].	Other: Keep records of the certification analysis from each supplier per shipment.[N.J.A.C. 7:27-22.16(o)].	None.
25	Total Production Rate <= 100,000 lb/batch. For each furnace, and the maximum batch hourly processing rate is 18,400 lbs/hr for all four furnaces combined. Minimum amount of time per batch is 3 hours. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor total material processed per batch and number of hours per batch.[N.J.A.C. 7:27-22.16(o)].	Total Production Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Recrod the total material processed per batch and number of hours per batch. [N.J.A.C. 7:27-22.16(o)]	None.
26	At all times, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (MACT Subpart RRR) [40 CFR 63.1506(a)(5)]	None.	Other: The permittee shall maintain records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.1506(a)(5), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.[40 CFR 63.1517(b)(18)(ii)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	The owner or operator must provide and maintain easily visible labels posted at each group 1 furnace that identifies the applicable emission limits and means of compliance, including: (1) The type of affected source or emission unit; and (2) The applicable operational standard(s) and control method(s). This includes, but is not limited to, the type of charge to be used for a furnace, flux materials and addition practices, and the applicable operating parameter ranges and requirements as incorporated in the OM&M plan. (MACT Subpart RRR) [40 CFR 63.1506(b)(2)]	Monitored by visual determination each month during operation. The owner or operator must inspect the labels for each group 1 furnace at least once per calendar month to confirm that posted labels are intact and legible. [40 CFR 63.1510(c)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep records of monthly inspections for proper unit labeling for each affected source and emission unit subject to labeling requirements. [40 CFR 63.1517(b)(13)]	None.
28	The owner or operator shall install and operate a device that measures and records or otherwise determine the weight of feed/charge (or throughput) for each operating cycle or time period used in the performance test; and operate each weight measurement system or other weight determination procedure in accordance with the OM&M plan. The owner or operator may choose to measure and record aluminum production weight rather than feed/charge weight to an affected source, provided that, the aluminum production weight, rather than feed/charge weight is measured and recorded for all emission units, and all calculations to demonstrate compliance with the emission limits are based on aluminum production weight rather than feed/charge weight. (MACT Subpart RRR) [40 CFR 63.1506(d)]	Other: The accuracy of the weight measurement device or procedure must be ±1 percent of the weight being measured. The owner or operator must verify the calibration of the weight measurement device in accordance with the schedule specified by the manufacturer, or if no calibration schedule is specified, at least once every 6 months.[40 CFR 63.1510(e)].	Other: For each affected source and emission unit subject to an emission standard in kg/Mg (lb/ton) of feed/charge, keep records of feed/charge (or throughput) weights for each operating cycle or time period used in the performance test.[40 CFR 63.1517(b)(7)].	Submit a report: As per the approved schedule. Excess emissions/summary report: Submit semiannual reports according to the requirements in 40 CFR 63.10(e)(3) within 60 days after the end of each 6-month period When no deviations of parameters have occurred, the owner or operator must submit a report stating that no excess emissions occurred during the reporting period. [40 CFR 63.1516(b)] and. [40 CFR 63.16(d)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	The owner or operator of a group 1 furnace must operate each furnace in accordance with the work practice/pollution prevention measures documented in the OM&M plan and within the parameter values or ranges established in the OM&M plan, and operate each group 1 melting/holding furnace subject to the emission standards in 40 CFR 63.1505(i)(2) using only clean charge as the feedstock. (MACT Subpart RRR) [40 CFR 63.1506(n)(2)] and [40 CFR 63.1506(n)(3)]	None.	Other: Keep records of all charge materials for each group 1 melting/holding furnaces without air pollution control devices processing only clean charge.[40 CFR 63.1517(b)(9)].	Other (provide description): Other. When a process parameter or add-on air pollution control device operating parameter deviates from the value or range established during the performance test and incorporated in the OM&M plan, the owner or operator must initiate corrective action. Corrective action must restore operation of the affected source or emission unit (including the process or control device) to its normal or usual mode of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. Corrective actions taken must include follow-up actions necessary to return the process or control device parameter level(s) to the value or range of values established during the performance test and steps to prevent the likely recurrence of the cause of a deviation. [40 CFR 63.1506(p)]
30	The owner or operator must prepare and implement for each new or existing affected source and emission unit, a written OM&M plan. The owner or operator must comply with all of the provisions of the OM&M plan as submitted to the permitting authority. Each OM&M plan must contain the applicable information documented at 40 CFR 63.1510(b)(1) through 40 CFR 63.1510(b)(9) (MACT Subpart RRR) [40 CFR 63.1510(b)]	None.	Other: Keep a current copy of the OM&M plan, including any revisions, with records documenting conformance with the plan.[40 CFR 63.1517(b)(16)].	Submit a plan: As per the approved schedule The owner or operator of any new affected source must submit the OM&M plan to the permitting authority for major sources, within 90 days after a successful initial performance test under [40 CFR 63.1511(b)]. The plan must be accompanied by a written certification by the owner or operator that the OM&M plan satisfies all requirements of this section and is otherwise consistent with the requirements of this subpart. [40 CFR 63.1510(b)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	The owner or operator must develop, in consultation with the permitting authority for major sources, a written site-specific monitoring plan. The site-specific monitoring plan must contain sufficient procedures to ensure continuing compliance with all applicable emission limits and must demonstrate, based on documented test results, the relationship between emissions of PM, HCl, D/F and HF, and the proposed monitoring parameters for each pollutant. Test data must establish the highest level of PM, HCl, D/F and HF that will be emitted from the furnace in accordance with 40 CFR 63.1511(b)(1). The site-specific monitoring plan must include all the applicable requirements specified at 40 CFR 63.1510(o)(2) through 40 CFR 63.1510(o)(8). (MACT Subpart RRR) [40 CFR 63.1510(o)]	None.	Other: Keep records of the approved site-specific monitoring plan for each group 1 furnace without add-on air pollution control devices with records documenting conformance with the plan.[40 CFR 63.1517(b)(8)].	Submit a plan: As per the approved schedule. The site-specific monitoring plan must be submitted to the permitting authority as part of the OM&M plan. [40 CFR 63.1510(o)(1)]
32	Prior to conducting any performance test required by this subpart, the owner or operator must prepare a site-specific test plan which satisfies all of the rule requirements, and must obtain approval of the plan pursuant to the procedures set forth in 40 CFR 63.7. (MACT Subpart RRR) [40 CFR 63.1511(a)]	None.	Other: Keep records of the approved site-specific test plan.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	The owner or operator must conduct a performance test every 5 years following the initial performance test to demonstrate compliance with each applicable emission, equipment, work practice, or operational standard for each affected source and emission unit The performance tests must be conducted in accordance with the requirements specified at 40 CFR 63.1511(b)(1) through 40 CFR 63.1511(b)(7) The permittee must use the procedures specified at 40 CFR 63.1512(e) and [40 CFR 63.1512(k). When testing a new uncontrolled furnace constructed after February 14, 2012, the facility must install hooding that meets ACGIH Guidelines (see 40 CFR 63.14) or petition the permitting authority, that such hoods are impracticable under the provisions of 40 CFR 63.1512(e)(6) of this section and propose testing procedures that will minimize unmeasured emissions during the performance test according to the provisions of 40 CFR 63.1512(e)(7). (MACT Subpart RRR) [40 CFR 63.1511(e)]	Other: The owner or operator must use the methods specified at 40 CFR 63.1511(c) to determine compliance with the applicable emission limits or standards. Use the equations at 40 CFR 63.1513 to determine compliance with the emission limits. [40 CFR 63.1511(c)] and[40 CFR 63.1513].	None.	Submit notification: As per the approved schedule. The owner or operator must notify the Administrator of the intent to conduct a performance test at least 60 days before the performance test is scheduled. The owner or operator must submit a complete performance test report within 90 days after conducting the performance test for each affected source and emission unit for which a performance test is required. A complete performance test report includes all data, associated measurements, and calculations (including visible emission and opacity tests). [40 CFR 63.1515(b)(1)]
34	For a new or existing affected source demonstrate compliance during periods of startup and shutdown in accordance with 40 CFR 63.1513(f)(1) or determine your emissions per unit of feed/charge during periods of startup and shutdown in accordance with 40 CFR 63.1513(f)(2). (MACT Subpart RRR) [40 CFR 63.1513(f)]	None.	Other: For each period of startup or shutdown for which the owner or operator chooses to demonstrate compliance for an affected source, the owner or operator must keep records specified at 40 CFR 63.1517(b)(19)(i) or 40 CFR 63.1517(b)(19)(ii).[40 CFR 63.1517(b)(19)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	The owner or operator of a major or area source must submit semiannual reports according to the requirements in 40 CFR 63.10(e)(3). Except, the owner or operator must submit the semiannual reports within 60 days after the end of each 6-month period instead of within 30 days after the calendar half as specified in 40 CFR 63.10(e)(3)(v). When no deviations of parameters have occurred, the owner or operator must submit a report stating that no excess emissions occurred during the reporting period. The report must contain all of the applicable information specified in 40 CFR 63.1516(b). (MACT Subpart RRR) [40 CFR 63.1516(b)]	None.	None.	None.
36	The owner or operator of a secondary aluminum production facility shall comply with the applicable General Provisions in 40 CFR 63 Subpart A as listed in Appendix A to 40 CFR 63 Subpart RRR. (MACT Subpart RRR) [40 CFR 63.1518]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U24 Two Melting Furnaces, Two Melting/Holding Furnaces**

Operating Scenario: **OS7 26.5 MMBTU/hr Melting Furnace (E303), Firing NG, OS9 26.5 MMBTU/hr Melting Furnace (E304), Firing NG**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.56 lb/hr per furnace. Based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	VOC (Total) <= 0.15 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 2.82 lb/hr per furnace. Based on manufacturer's emission factor of 0.1064 lb/mmBtu. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records of manufacturer's technical data and emission factors.[N.J.A.C. 7:27-22.16(o)].	None.
4	CO <= 1.9 lb/hr per furnace. Based on manufacturer's emission factor of 0.0718 lb/mmBtu. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records of manufacturer's technical data and emission factors.[N.J.A.C. 7:27-22.16(o)].	None.
5	TSP <= 0.85 lb/hr per furnace. (0.20 lb/hr due to combustion and 0.65 lb/hr due to process melting). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.85 lb/hr per furnace. (0.20 lb/hr due to combustion and 0.65 lb/hr due to process melting). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.85 lb/hr per furnace. (0.20 lb/hr due to combustion and 0.65 lb/hr due to process melting). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	HCl Emissions <= 0.74 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	HCl Emissions: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	HCl Emissions: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Hydrogen fluoride <= 0.51 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	Hydrogen fluoride: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Hydrogen fluoride: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
10	Dioxins/Furans (TEQ) <= 2.6256E-7 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	Dioxins/Furans (TEQ): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Dioxins/Furans (TEQ): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	Arsenic compounds <= 0.0000052 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Cadmium compounds <= 0.000029 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Cobalt compounds <= 0.0000022 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Formaldehyde <= 0.002 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Dimethylbenz(a)anthracene (7,12-) <= 4.2E-7 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	HF <= 0.055 lb of HF per ton of feed/charge per furnace. [N.J.A.C. 7:27-22.16(a)]	Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test requirements in U24 OS Summary. [N.J.A.C. 7:27-22.16(o)]
17	HCl <= 0.08 lb of HCl per ton of feed/charge per furnace. [N.J.A.C. 7:27-22.16(a)]	Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test requirements in U24 OS Summary. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Particulate Emissions <= 0.20 kg of PM per Mg (0.40 lb of PM per ton) of feed/charge per furnace. Measured prior to the baghouse inlet. (MACT Subpart RRR) [40 CFR 63.1505(i)(1)]	Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
19	Dioxins & Furans <= 15 µg of D/F TEQ per Mg (2.1 × 10-4 gr of D/F TEQ per ton) of feed/charge per furnace. Measured prior to the baghouse inlet. (MACT Subpart RRR) [40 CFR 63.1505(i)(3)]	Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
20	HF <= 0.20 kg of HF per Mg (0.40 lb of HF per ton) of feed/charge per furnace. Measured prior to the baghouse inlet. (MACT Subpart RRR) [40 CFR 63.1505(i)(4)]	Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
21	HCl <= 0.20 kg of HCl per Mg (0.40 lb of HCl per ton) of feed/charge per furnace. Measured prior to the baghouse inlet. (MACT Subpart RRR) [40 CFR 63.1505(i)(4)]	Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
22	Maximum Gross Heat Input <= 26.5 MMBTU/hr (HHV) per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
23	Natural Gas Usage <= 227.69 MMft^3 per each consecutive 12 month period, per furnace, based on 8592 hours of operation. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U24 Two Melting Furnaces, Two Melting/Holding Furnaces**

Operating Scenario: **OS11 26.5 MMBTU/hr Melting/Holding Furnace (E305), Firing NG, OS13 26.5 MMBTU/hr Melting/Holding Furnace (E306), Firing NG**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr per furnace. Based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	VOC (Total) <= 0.15 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 2.82 lb/hr per furnace. Based on manufacturer's emission factor of 0.1064 lb/mmBtu. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records of manufacturer's technical data and emission factors.[N.J.A.C. 7:27-22.16(o)].	None.
4	CO <= 1.9 lb/hr per furnace. Based on manufacturer's emission factor of 0.0718 lb/mmBtu. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records of manufacturer's technical data and emission factors.[N.J.A.C. 7:27-22.16(o)].	None.
5	TSP <= 0.85 lb/hr per furnace. (0.20 lb/hr due to combustion and 0.65 lb/hr due to process melting). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.85 lb/hr per furnace. (0.20 lb/hr due to combustion and 0.65 lb/hr due to process melting). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.85 lb/hr per furnace. (0.20 lb/hr due to combustion and 0.65 lb/hr due to process melting). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	HCl Emissions <= 0.74 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	HCl Emissions: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	HCl Emissions: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Hydrogen fluoride <= 0.51 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	Hydrogen fluoride: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Hydrogen fluoride: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
10	Arsenic compounds <= 0.0000052 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Cadmium compounds <= 0.000029 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Cobalt compounds <= 0.0000022 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Formaldehyde <= 0.002 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Dimethylbenz(a)anthracene (7,12-) <= 4.2E-7 lb/hr per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	HF <= 0.055 lb of HF per ton of feed/charge per furnace. [N.J.A.C. 7:27-22.16(a)]	Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test requirements in U24 OS Summary. [N.J.A.C. 7:27-22.16(o)]
16	HCl <= 0.08 lb of HCl per ton of feed/charge per furnace. [N.J.A.C. 7:27-22.16(a)]	Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test requirements in U24 OS Summary. [N.J.A.C. 7:27-22.16(o)]
17	Particulate Emissions <= 0.40 kg of PM per Mg (0.80 lb of PM per ton) of feed/charge per furnace. Measured prior to the baghouse inlet. (MACT Subpart RRR) [40 CFR 63.1505(i)(1)]	Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	. See the stack test details in the OS Summary. Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	HF <= 0.20 kg of HF per Mg (0.40 lb of HF per ton) of feed/charge per furnace. Measured prior to the baghouse inlet. (MACT Subpart RRR) [40 CFR 63.1505(i)(4)]	Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
19	HCl <= 0.20 kg of HCl per Mg (0.40 lb of HCl per ton) of feed/charge per furnace. Measured prior to the baghouse inlet. (MACT Subpart RRR) [40 CFR 63.1505(i)(4)]	Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
20	Maximum Gross Heat Input <= 26.5 MMBTU/hr (HHV) per furnace. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
21	Natural Gas Usage <= 227.69 MMft^3 per each consecutive 12 month period, per furnace, based on 8592 hours of operation. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U24 Two Melting Furnaces, Two Melting/Holding Furnaces**

Operating Scenario: **OS15 Dross Skimming in Melting Furnace E303., OS16 Dross Skimming in Melting Furnace E304.**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.58 lb/hr per furnace. Based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP <= 0.11 lb/cycle, per furnace, based on the following: Furnace charge weight <= 34 tons per 4 hr melt cycle. Quantity of dross generated <= 1.6% of charge weight. Baghouse efficiency >= 99 %. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the furnace charge weight for each melt cycle.[N.J.A.C. 7:27-22.16(o)].	Other: Record the furnace charge weight for each melt cycle.[N.J.A.C. 7:27-22.16(o)].	None.
3	PM-10 (Total) <= 0.11 lb/cycle, per furnace, based on the following: Furnace charge weight <= 34 tons per 4 hr melt cycle. Quantity of dross generated <= 1.6% of charge weight. Baghouse efficiency >= 99 %. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the furnace charge weight for each melt cycle.[N.J.A.C. 7:27-22.16(o)].	Other: Record the furnace charge weight for each melt cycle.[N.J.A.C. 7:27-22.16(o)].	None.
4	PM-2.5 (Total) <= 0.11 lb/cycle, per furnace, based on the following: Furnace charge weight <= 34 tons per 4 hr melt cycle. Quantity of dross generated <= 1.6% of charge weight. Baghouse efficiency >= 99 %. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the furnace charge weight for each melt cycle.[N.J.A.C. 7:27-22.16(o)].	Other: Record the furnace charge weight for each melt cycle.[N.J.A.C. 7:27-22.16(o)].	None.
5	TSP <= 0.08 tons/yr per furnace, based on four cycles per day. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the number of furnace melt cycles per day.[N.J.A.C. 7:27-22.16(o)].	Other: Record the number of furnace melt cycles per day.[N.J.A.C. 7:27-22.16(o)].	None.
6	PM-10 (Total) <= 0.08 tons/yr per furnace, based on four cycles per day. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by number of furnace melt cycles per day.[N.J.A.C. 7:27-22.16(o)].	PM-10 (Total): Recordkeeping by er of furnace melt cycles per day.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	PM-2.5 (Total) <= 0.08 tons/yr per furnace, based on four cycles per day. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by number of furnace melt cycles per day.[N.J.A.C. 7:27-22.16(o)].	PM-2.5 (Total): Recordkeeping by er of furnace melt cycles per day.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U24 Two Melting Furnaces, Two Melting/Holding Furnaces**

Operating Scenario: **OS17 Dross Skimming in Melting/Holding Furnace E305., OS18 Dross Skimming in Melting/Holding Furnace E306.**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.58 lb/hr per furnace. Based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP <= 0.11 lb/cycle, per furnace, based on the following: Furnace charge weight <= 34 tons per 4 hr melt cycle. Quantity of dross generated <= 1.6% of charge weight. Baghouse efficiency >= 99 %. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the furnace charge weight for each melt cycle.[N.J.A.C. 7:27-22.16(o)].	Other: Record the furnace charge weight for each melt cycle.[N.J.A.C. 7:27-22.16(o)].	None.
3	PM-10 (Total) <= 0.11 lb/cycle, per furnace, based on the following: Furnace charge weight <= 34 tons per 4 hr melt cycle. Quantity of dross generated <= 1.6% of charge weight. Baghouse efficiency >= 99 %. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the furnace charge weight for each melt cycle.[N.J.A.C. 7:27-22.16(o)].	Other: Record the furnace charge weight for each melt cycle.[N.J.A.C. 7:27-22.16(o)].	None.
4	PM-2.5 (Total) <= 0.11 lb/cycle, per furnace, based on the following: Furnace charge weight <= 34 tons per 4 hr melt cycle. Quantity of dross generated <= 1.6% of charge weight. Baghouse efficiency >= 99 %. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the furnace charge weight for each melt cycle.[N.J.A.C. 7:27-22.16(o)].	Other: Record the furnace charge weight for each melt cycle.[N.J.A.C. 7:27-22.16(o)].	None.
5	TSP <= 0.06 tons/yr per furnace, based on three cycles per day. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the number of furnace melt cycles each day.[N.J.A.C. 7:27-22.16(o)].	Other: Record the number of furnace melt cycles each day.[N.J.A.C. 7:27-22.16(o)].	None.
6	PM-10 (Total) <= 0.06 tons/yr per furnace, based on three cycles per day. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by number of furnace melt cycles each day.[N.J.A.C. 7:27-22.16(o)].	PM-10 (Total): Recordkeeping by er of furnace melt cycles each day.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	PM-2.5 (Total) <= 0.06 tons/yr per furnace, based on three cycles per day. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by number of furnace melt cycles each day.[N.J.A.C. 7:27-22.16(o)].	PM-2.5 (Total): Recordkeeping by er of furnace melt cycles each day.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U25 Aging Oven 1315**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR1 for the Facility-Wide Natural Gas Usage Limit requirement. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for three minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Fuel use for the ovens is limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 2.36 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 1.98 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Cadmium compounds <= 0.000026 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Formaldehyde <= 0.0018 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Dimethylbenz(a)anthracene (7,12-) <= 3.8E-7 tons/yr based on the permitted annual natural gas limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	HAPs (Total) <= 0.0018 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U25 Aging Oven 1315**
Operating Scenario: **OS2 5.5 MMBTU/hr Natural Gas Fired Aging Oven 1315 (E14)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per standard cubic foot of gas emitted from source operation. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	NOx (Total) <= 0.539 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.453 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Cadmium compounds <= 0.0000059 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Formaldehyde <= 0.0004 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Dimethylbenz(a)anthracene (7,12-) <= 8.6E-8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Maximum Gross Heat Input <= 5.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
9	Natural Gas Usage <= 47.24 MMft^3 per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U26 Two 6.275 MMBTU/hr NG Fired Boilers**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63 Subpart A 40 CFR 63 Subpart DDDDD [40 CFR Federal Rules Summary]	None.	None.	None.
2	See Subject Item GR1 for the Facility-Wide Natural Gas Usage Limit requirement. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)]	None.	None.	None.
4	Fuel use for the boilers shall be limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 5.39 tons/yr for both boilers combined. Based on the sum of annual natural gas limits for both boilers combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 4.53 tons/yr for both boilers combined. Based on the sum of annual natural gas limits for both boilers combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.41 tons/yr for both boilers combined. Based on the sum of annual natural gas limits for both boilers combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.41 tons/yr for both boilers combined. Based on the sum of annual natural gas limits for both boilers combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.41 tons/yr for both boilers combined. Based on the sum of annual natural gas limits for both boilers combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Arsenic compounds <= 0.000011 tons/yr for both boilers combined. Based on the sum of annual natural gas limits for both boilers combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Cadmium compounds <= 0.000059 tons/yr for both boilers combined. Based on the sum of annual natural gas limits for both boilers combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Dimethylbenz(a)anthracene (7,12-) <= 8.6E-7 tons/yr for both boilers combined. Based on the sum of annual natural gas limits for both boilers combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Formaldehyde <= 0.004 tons/yr for both boilers combined. Based on the sum of annual natural gas limits for both boilers combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	HAPs (Total) <= 0.0041 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	At all times, the permitte must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.7500(a)(3)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	The permittee must conduct a tune-up of the boiler or process heater biennially. Each tune-up must be conducted no more than 25 months after the previous tune-up. For an existing source, the first tune-up is no later than January 31, 2016, and for a new source, no later than 25 months after the initial startup. The tune-ups shall be conducted in accordance with 40 CFR 63.7540(a)(10) as follows: (1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary. The burner inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection. (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. The inspection may be delayed until the next scheduled unit shutdown. (4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject. Per 40 CFR 63.7540(a)(13), if the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. [40 CFR 63.7540(a)(11)]	Monitored by periodic emission monitoring once initially and once every 2 years. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR 63.7540(10)(v)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and once every 2 years. The permittee shall maintain on-site and submit, if requested by the Administrator, a report containing the following information: The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater; A description of any corrective actions taken as a part of the tune-up; and The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. Per 40 CFR 63.10(b)(1), the files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.7540(a)(10)(vi)]	Submit notification: Once initially. Submit a Notification of Compliance status for existing sources within 60 days of January 31, 2016 that includes the information in 40 CFR 63.7545(e)(1) and (e)(8) as follows: - A description including identification of which subcategories the unit is in, the design heat input capacity, a description of the add-on controls, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined to be a non-waste under paragraph 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration, and - The following certification(s) of compliance, as applicable, and signed by a responsible official: “This facility completed the required initial tune-up according to the procedures in 40 CFR 63.7540(a)(10)(i) through (vi).” “This facility has had an energy assessment performed according to 40 CFR 63.7530(e). Except for units that burn only natural gas or refinery gas, or units that qualify for a statutory exemption: “No secondary materials that are solid waste were combusted in any affected unit.” [40 CFR 63.7545(e)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The permittee must complete a one-time energy assessment of the existing boiler or process heater no later than January 31, 2016, performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in Table 3 to 40 CFR 63 subpart DDDDD, satisfies the energy assessment requirement. A facility that operated under an energy management program developed according to the ENERGY STAR guidelines for energy management or compatible with ISO 50001 for at least one year between January 1, 2008 and January 31, 2016 also satisfies the energy assessment requirement. The energy assessment must be performed in accordance with Table 3 to 40 CFR 63 subpart DDDDD. [40 CFR 63.7530(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. In accordance with Table 3 to 40 CFR 63 subpart DDDDD, the energy assessment must include the following with extent of the evaluation for items a. to e. appropriate for the on-site technical hours listed in 40 CFR 63.7575: a. A visual inspection of the boiler or process heater system. b. An evaluation of operating characteristics of the boiler or process heater systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints. c. An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the boiler/process heater owner/operator. d. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage. e. A review of the facility's energy management program and provide recommendations for improvements consistent with the definition of energy management program, if identified. f. A list of cost-effective energy conservation measures that are within the facility's control. g. A list of the energy savings potential of the energy conservation measures identified. h. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments. [40 CFR 63.7530(e)]	Submit notification: Once initially Submit a Notification of Compliance status for existing sources no later than March 31, 2016 that includes the information in 40 CFR 63.7545(e)(1) and (e)(8) as follows: - A description including identification of which subcategories the unit is in, the design heat input capacity, a description of the add-on controls, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined to be a non-waste under paragraph 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration, and - The following certification(s) of compliance, as applicable, and signed by a responsible official: "This facility completed the required initial tune-up according to the procedures in 40 CFR 63.7540(a)(10)(i) through (vi)." "This facility has had an energy assessment completed either according to Table 3 to MACT DDDDD, and the assessment is an accurate depiction of your facility, or that the maximum number of on-site technical hours specified in the definition of energy assessment applicable to the facility has been expended." Except for units that burn only natural gas or refinery gas, or units that qualify for a statutory exemption: "No secondary materials that are solid waste were combusted in any affected unit." [40 CFR 63.7530(e)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Submit a first annual, biennial, or 5-year, as applicable, compliance report no later than January 31 following the 1, 2 or 5 year period, as applicable, after January 31, 2016. Each subsequent compliance report must be submitted no later than January 31 following the end of the annual, biennial or 5-year, as applicable, reporting period. Per 40 CFR 63.7550(c)(1), the report must contain the following information: (1) Company and Facility name and address. (2) Process unit information, emissions limitations, and operating parameter limitations (3) Date of report and beginning and ending dates of the reporting period. (4) The total operating time during the reporting period for limited use boiler or process heater. (5) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct a biennial or 5-year tune-up . Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown. (6) Statement by a responsible official with that official name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. [40 CFR 63.7550(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain files of all required information (including all reports and notifications) recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)]	Submit a report: As per the approved schedule electronically to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX, www.epa.gov/cdx). The permittee must use the appropriate electronic report in CEDRI for 40 CFR 63 Subpart DDDDD. Instead of using the electronic report in CEDRI, the permittee may submit an alternate electronic file consistent with the XML schema listed on the CEDRI website (http://www.epa.gov/ttn/chief/cedri/index.html), once the XML schema is available. However, if the reporting form specific to 40 CFR 63 Subpart DDDDD is not available in CEDRI at the time that the report is due the permittee must submit the report to the EPA Administrator Region 2. The permittee must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [40 CFR 63.7550(h)(3)]
19	The owner or operator of a boiler or process heater shall comply with the applicable General Provisions in 40 CFR 63 Subpart A as listed in Table 10 in 40 CFR 63 Subpart DDDDD. [40 CFR 63.7565]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U26 Two 6.275 MMBTU/hr NG Fired Boilers**

Operating Scenario: **OS4 6.275 MMBTU/hr Boiler 1701-05A (E49), OS5 6.275 MMBTU/hr Boiler 1701-05B (E50)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 3.77 lb/hr per boiler. Based on the maximum heat input rate. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	NOx (Total) <= 0.62 lb/hr per boiler. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.52 lb/hr per boiler. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.05 lb/hr per boiler. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.05 lb/hr per boiler. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.05 lb/hr per boiler. Based on the PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Arsenic compounds <= 0.0000012 lb/hr per boiler. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Cadmium compounds <= 0.0000068 lb/hr per boiler. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Formaldehyde <= 0.00046 lb/hr per boiler. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Dimethylbenz(a)anthracene (7,12-) <= 9.8E-8 lb/hr per boiler. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Maximum Gross Heat Input <= 6.275 MMBTU/hr (HHV) per boiler. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Natural Gas Usage <= 54 MMft^3 per each consecutive 12 month period, per boiler. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U29 Two 3.85 MMBTU/hr Rapid Heating Systems**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR1 for the Facility-Wide Natural Gas Usage Limit requirement. [N.J.A.C. 7:27-22.16(a)]	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. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)]	None.	None.	None.
3	Fuel use for the rapid heating furnaces is limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 3.31 tons/yr for all rapid heating systems combined. Based on the sum of annual natural gas limits for both heaters combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 2.78 tons/yr for all rapid heating systems combined. Based on the sum of annual natural gas limits for both heaters combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Cadmium compounds <= 0.000036 tons/yr for all rapid heating systems combined. Based on the sum of annual natural gas limits for both heaters combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	HAPs (Total) <= 0.000036 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U29 Two 3.85 MMBTU/hr Rapid Heating Systems**

Operating Scenario: **OS1 3.85 MMBTU/hr Rapid Heating System 1731 (E72), OS2 3.85 MMBTU/hr Rapid Heating System 1732 (E73)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.31 lb/hr per heater. Based on the maximum heat input rate. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	NOx (Total) <= 0.377 lb/hr per heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.317 lb/hr per heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP < 0.05 lb/hr per heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Cadmium compounds <= 0.0000042 lb/hr per heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum Gross Heat Input <= 3.85 MMBTU/hr (HHV) per heater. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
7	Natural Gas Usage <= 33.06 MMft^3 per each consecutive 12 month period, per heater. Maximum annual fuel usage based on 8760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet for each 12 consecutive months shall be calculated by the sum of the cubic feet consumed during each 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U45 Two 25,000 lb/hr DoAll Bandsaws (E208 and E209)**
Subject Item: **CD27 Bandsaw Baghouse A, CD28 Bandsaw Baghouse B**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Pressure Drop Across the Baghouse >= 2 and Pressure Drop Across the Baghouse <= 8 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure measurement device continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27-22.16(o)]	None.
2	Particulates Control Efficiency >= 99 %. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	The permittee shall conduct a daily physical check of each DoAll Bandsaw filter for structural integrity. The permittee shall conduct bag cleaning, maintenance and replacement on a schedule necessary to achieve the required particulate removal efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The permittee shall record each instance of bag maintenance and bag replacement. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U45 Two 25,000 lb/hr DoAll Bandsaws (E208 and E209)**
Operating Scenario: **OS Summary**

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

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	TSP <= 5.48 tons/yr total for two DoAll Bandsaws. Based on the maximum throughput capacity and 8760 hours per year of operation for each bandsaw. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 5.48 tons/yr total for two DoAll Bandsaws. Based on the maximum throughput capacity and 8760 hours per year of operation for each bandsaw. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-2.5 (Total) <= 5.48 tons/yr total for two DoAll Bandsaws. Based on the maximum throughput capacity and 8760 hours per year of operation for each bandsaw. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U45 Two 25,000 lb/hr DoAll Bandsaws (E208 and E209)**
Operating Scenario: **OS1 25,000 lb/hr DoAll Bandsaw V-785A (E208), OS2 25,000 lb/hr DoAll Bandsaw V-785B (E209)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.625 lb/hr per bandsaw. [N.J.A.C. 7:27-22.16(a)]	None.	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. The permittee shall maintain a record of an analysis that shows the permitted emission rate will not be exceeded when the DoAll bandsaw operates at maximum capacity. [N.J.A.C. 7:27-22.16(o)]	None.
2	PM-10 (Total) <= 0.625 lb/hr per bandsaw. [N.J.A.C. 7:27-22.16(a)]	None.	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. The permittee shall maintain a record of an analysis that shows the pemitted emiission rate will not be exceeded when the DoAll bandsaw operates at maximum capacity. [N.J.A.C. 7:27-22.16(o)]	None.
3	PM-2.5 (Total) <= 0.625 lb/hr per bandsaw. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Total Throughput <= 25,000 lb/hr per bandsaw. [N.J.A.C. 7:27-22.16(a)]	None.	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Keep records showing the maximum capacity of each bandsaw. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U90 Aluminum Anodizing Line**
Subject Item: **CD1090 Etch System wet Scrubber**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Flowrate of Scrubbing Medium at Scrubber Inlet >= 15 and Flowrate of Scrubbing Medium at Scrubber Inlet <= 30 gal/min. [N.J.A.C. 7:27-22.16(a)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Monitored by scrubber flow rate instrument continuously, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Flowrate of Scrubbing Medium at Scrubber Inlet: Recordkeeping by data acquisition system (DAS) / electronic data storage each half hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
2	Scrubbing Medium pH >= 8 standard units. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium pH: Monitored by pH instrument continuously, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium pH: Recordkeeping by data acquisition system (DAS) / electronic data storage each half hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
3	Pressure Drop Across the Scrubber <= 2 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Scrubber: Monitored by pressure drop instrument continuously, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Scrubber: Recordkeeping by data acquisition system (DAS) / electronic data storage each half hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
4	The scrubber shall be equipped with a mist eliminator. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U90 Aluminum Anodizing Line**
Operating Scenario: **OS Summary**

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

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The etching solution shall be ammonium bifluoride (NH4HF2). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep material safety data sheets (MSDS) for the etching solution.[N.J.A.C. 7:27-22.16(o)].	None.
4	TSP <= 4.21 tons/yr. Based on the annual material transfer limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 4.21 tons/yr. Based on the annual material transfer limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 4.21 tons/yr. Based on the annual material transfer limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Fluorides <= 0.025 tons/yr. Based on the annual material transfer limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Etching tank temperature <= 125 degrees F. [N.J.A.C. 7:27-22.16(a)]	Monitored by temperature instrument continuously, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage each half hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
9	Total Material Transferred <= 7,709 tons per each consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: 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)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep records showing the total material transferred for each month and each consecutive 12 month period. [N.J.A.C. 7:27-22.16(o)]	None.
10	TSP <= 0.96 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-10 (Total) <= 0.96 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-2.5 (Total) <= 0.96 lb/hr based on the PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Fluorides <= 0.0057 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Total Material Transferred <= 1,760 lb/hr or 320 square meters per hour. [N.J.A.C. 7:27-22.16(o)]	Other: Total Material Transferred: Monitored by production records daily.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by production records daily. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): 9000 River Road

Facility ID (AIMS): 51609

Street Address: 9000 RIVER RD
PENNSAUKEN, NJ 08110

Mailing Address: C/O VELOCITY VENTURE PARTNERS
1 BELMONT AVE
STE 520
BALA CYNWYD, PA 19004

State Plane Coordinates:

X-Coordinate:	423,000
Y-Coordinate:	1,895,000
Units:	New Jersey State Plane 8
Datum:	NAD27
Source Org.:	Other/Unknown
Source Type:	Other/Unknown

County: Camden

Location Description: 9000 River Road

Industry:

Primary SIC:	3354
Secondary SIC:	3341
NAICS:	331318

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: VV9000 LLC
Org. Type: LLC
Name: John Fiore, Jr.
NJ EIN:
Title: VP - Asset Management & Development
Phone: (610) 212-5806 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email: john.fiore@velocityinv.com
Mailing Address: c/o Velocity Venture Partners
1 Belmont Avenue
Suite 520
Bala Cynwyd, PA 19004

Contact Type: Fees/Billing Contact

Organization: VV9000 LLC
Org. Type: LLC
Name: Tim Ulrich
NJ EIN:
Title: Staff Accountant
Phone: (267) 319-3420 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email: Tim.Ulrich@velocityinv.com
Mailing Address: c/o Velocity Venture Partners
1 Belmont Avenue
Suite 520
Bala Cynwyd, PA 19004

Contact Type: Operator

Organization: VV9000 LLC
Org. Type: LLC
Name: VV9000 LLC
NJ EIN:
Title:
Phone: (610) 212-5806 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email:
Mailing Address: c/o Velocity Venture Partners
1 Belmont Avenue
Suite 520
Bala Cynwyd, PA 19004

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Owner (Current Primary)

Organization: VV9000 LLC
Org. Type: LLC
Name: VV9000 LLC
NJ EIN:
Title:
Phone: (610) 212-5806 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email:
Mailing Address: c/o Velocity Venture Partners
1 Belmont Avenue
Suite 520
Bala Cynwyd, PA 19004

Contact Type: Responsible Official

Organization: VV9000 LLC
Org. Type: LLC
Name: John Fiore, Jr.
NJ EIN:
Title: VP - Asset Management & Development
Phone: (610) 212-5806 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email: john.fiore@velocityinv.com
Mailing Address: c/o Velocity Venture Partners
1 Belmont Avenue
Suite 520
Bala Cynwyd, PA 19004

9000 RIVER ROAD (51609)
BOP210001

Date: 06/20/2022

New Jersey Department of Environmental Protection
Non-Source Fugitive Emissions

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)								
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG1	Dust from Plant Roads and Scrap Aluminum Piles	Facility Wide	0.000	0.000	0.000	0.000	0.300	0.300	0.000	0.00000000	0.000
Total			0.000	0.000	0.000	0.000	0.300	0.300	0.000	0.00000000	0.000

9000 RIVER ROAD (51609)
BOP210001

Date: 6/20/2022

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	Natural Gas and Liquid Propane Fired Space and Water Heaters (<1 MMBTU/hr)	Fuel Combustion Equipment (Other)	Plant Wide	0.430	5.720	1.210	0.030	0.680	0.680	0.000		
IS2	Distillate Fuel Oil (Including Kerosene) Storage Tanks (<10,000 gallons, < 0.02 psia)	Storage Vessel	Plant-Wide	0.100								
IS3	Unheated VOC Degreasers (Top Opening <= 6 sq. feet & Capacity <= 100 gallons)	Cleaning Machine (Open Top: Cold)	Plant-Wide	0.400								
IS4	Manufacturing Equipment, Including Cooling Towers (Raw Material Process Rate <50 lb/hr)	Manufacturing and Materials Handling Equipment	Plant-Wide	0.200								
IS5	Touchup spray paint booth (Coating Usage <0.5 gal/hr, <2.5 gal/day)	Surface Coating Equipment (Non-Fabric Material)	Main Building	2.720	0.000	0.000	0.000	0.100	0.100	0.000		
IS6	(4) Emergency Generators combusting natural gas or propane (< 1 MMBTU/hr)	Emergency Generator	Plant Wide	0.200	3.340	1.040	0.020	0.200	0.200			

9000 RIVER ROAD (51609)
BOP210001

Date: 6/20/2022

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)
IS7	(2) 20,000 gallon Distillate Fuel Oil (including up to 10% Kerosene) Storage Tanks (>10,000 gallons, < 0.02 psia)	Storage Vessel	Plant Wide	0.011								
Total				4.061	9.060	2.250	0.050	0.980	0.980	0.000	0.00000000	0.000

9000 RIVER ROAD (51609) Date: 6/20/2022

BOP210001

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	601	Make-up Air Heater	Fuel Combustion Equipment (Other)	PCP000015		No		
E8	NA	Etch Plating Line	Manufacturing and Materials Handling Equipment	115628		No		
E12	NA	Sulfuric Acid Tank	Manufacturing and Materials Handling Equipment	115629		No		
E13	1302	Billet Furnace	Manufacturing and Materials Handling Equipment	089746		No		
E14	1315	Aluminum Aging Oven	Fuel Combustion Equipment (Other)	089747		No		
E16	NA	Sulfuric Acid Tank	Manufacturing and Materials Handling Equipment	115629		No		
E22	1470	Space Heater	Fuel Combustion Equipment (Other)	120476		No		
E23	727	Space Heater	Fuel Combustion Equipment (Other)	118845		No		
E24	728	Space Heater	Fuel Combustion Equipment (Other)	118846		No		
E26	726	Space Heater	Fuel Combustion Equipment (Other)	118950		No		
E38	1409	Aluminum Holding Furnace	Fuel Combustion Equipment (Other)	01-96-1640		No	1/1/2015	

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
E44	662	Billet Furnace	Manufacturing and Materials Handling Equipment	PCP000001		No		
E49	1701-05A	Boiler	Boiler	129712		No		
E50	1701-05B	Boiler	Boiler	01-96-1642		No		
E52	600	Space Heater	Fuel Combustion Equipment (Other)	1968		No		
E57	1667	Space Heater	Fuel Combustion Equipment (Other)	1968		Yes		
E59	158	Aging Oven	Fuel Combustion Equipment (Other)	1968		Yes		
E61	703	Space Heater	Fuel Combustion Equipment (Other)	1968		Yes		
E62	538	Aging Oven	Fuel Combustion Equipment (Other)	1968		Yes		
E70	1903	Billet Furnace	Manufacturing and Materials Handling Equipment	126618		No		
E71	1928	Aging Furnace	Fuel Combustion Equipment (Other)	126619		No		
E72	1731	Rapid Heating System	Fuel Combustion Equipment (Other)	126615		No		
E73	1732	Rapid Heating System	Fuel Combustion Equipment (Other)	126616		No		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E208	V-785A	DoAll Band Saw	Manufacturing and Materials Handling Equipment	PCP000016		No		
E209	V-785B	DoAll Band Saw	Manufacturing and Materials Handling Equipment	PCP000016		No		
E215	928	Aging Oven	Fuel Combustion Equipment (Other)	1968		Yes		
E223	Abrsv. Blstg	Confined Abrasive Blasting Equipment.	GP-Abrasive Blasting	GEN000003	1/1/2000	No		
E302		Billet Furnace	Manufacturing and Materials Handling Equipment		1/1/2015	No		
E303		Aluminum Melting Furnace	Fuel Combustion Equipment (Other)		1/1/2015	No		
E304		Aluminum Melting Furnace	Fuel Combustion Equipment (Other)		1/1/2015	No		
E305		Aluminum Melting/Holding Furnace	Fuel Combustion Equipment (Other)		1/1/2015	No		
E306		Aluminum Melting/Holding Furnace	Fuel Combustion Equipment (Other)		1/1/2015	No		
E307		Homogenizing Oven	Fuel Combustion Equipment (Other)		1/1/2015	No		
E308		Homogenizing Oven	Fuel Combustion Equipment (Other)		1/1/2015	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
E309		Homogenizing Oven	Fuel Combustion Equipment (Other)		1/1/2015	No		
E310		Homogenizing Oven	Fuel Combustion Equipment (Other)		1/1/2015	No		
E1090	New Etch Tnk	Etch Tank	Other Equipment		1/1/2017	No		

51609 9000 RIVER ROAD BOP210001 E8 (Manufacturing and Materials Handling Equipment)
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Etch Plating Line
Capacity:	4.20E+03
Units:	other units
Description (if other):	lbs./hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51609 9000 RIVER ROAD BOP210001 E12 (Manufacturing and Materials Handling Equipment)
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Sulfuric Acid Tank No. 1
Capacity:	4.20E+03
Units:	other units
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51609 9000 RIVER ROAD BOP210001 E13 (Manufacturing and Materials Handling Equipment)
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Billet Furnace
Capacity:	3.50E+03
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Note: Emissions result from fuel combustion only. There are no emissions associated with material processing activities.

51609 9000 RIVER ROAD BOP210001 E14 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	5.50
Type of Heat Exchange:	Direct
Equipment Type Description:	Aluminum Aging Oven

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.

51609 9000 RIVER ROAD BOP210001 E16 (Manufacturing and Materials Handling Equipment)
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	4.20E+03
Units:	other units
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51609 9000 RIVER ROAD BOP210001 E22 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	3.50
Type of Heat Exchange:	Direct
Equipment Type Description:	Space Heater

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.

51609 9000 RIVER ROAD BOP210001 E23 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	2.24
Type of Heat Exchange:	Direct
Equipment Type Description:	Space Heater

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.

51609 9000 RIVER ROAD BOP210001 E24 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	2.24
Type of Heat Exchange:	Direct
Equipment Type Description:	Space Heater

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.

51609 9000 RIVER ROAD BOP210001 E2 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	4.62
Type of Heat Exchange:	Direct
Equipment Type Description:	Makeup Air Heater

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.

51609 9000 RIVER ROAD BOP210001 E26 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.68
Type of Heat Exchange:	Direct
Equipment Type Description:	Space Heater

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.

51609 9000 RIVER ROAD BOP210001 E38 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	9.00
Type of Heat Exchange:	Direct
Equipment Type Description:	Aluminum Holding Furnace No. 1409

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: Request to change the maximum amount of material processed to 80,000 lb per 1 hour batch. No emissions result from material processing. Combustion emissions only, therefore, no increase in emissions expected from this change.

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

51609 9000 RIVER ROAD BOP210001 E44 (Manufacturing and Materials Handling Equipment)
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Billet Furnace
Capacity:	2.40E+03
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	No changes proposed for this equipment

51609 9000 RIVER ROAD BOP210001 E49 (Boiler)
Print Date: 4/8/2022

Make:	
Manufacturer:	Cleaver Brooks
Model:	CB200-150
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	6.28
Boiler Type:	Package
Utility Type:	
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	

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

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

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

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? No

Comments:

51609 9000 RIVER ROAD BOP210001 E50 (Boiler)
Print Date: 4/8/2022

Make:	
Manufacturer:	Cleaver Brooks
Model:	CB200-150
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	6.28
Boiler Type:	Package
Utility Type:	
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	

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

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

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

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? No

Comments:

51609 9000 RIVER ROAD BOP210001 E52 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	4.62
Type of Heat Exchange:	Direct
Equipment Type Description:	Space Heater

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.

51609 9000 RIVER ROAD BOP210001 E57 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	2.45
Type of Heat Exchange:	Direct
Equipment Type Description:	Space Heater

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.

51609 9000 RIVER ROAD BOP210001 E59 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	2.02
Type of Heat Exchange:	Direct
Equipment Type Description:	Aluminum Aging Oven

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.

51609 9000 RIVER ROAD BOP210001 E61 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.68
Type of Heat Exchange:	Direct
Equipment Type Description:	Space Heater

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.

51609 9000 RIVER ROAD BOP210001 E62 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.20
Type of Heat Exchange:	Direct
Equipment Type Description:	Aluminum Aging Oven

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.

51609 9000 RIVER ROAD BOP210001 E70 (Manufacturing and Materials Handling Equipment)
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Billet Furnace
Capacity:	2.40E+03
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	No changes proposed for this equipment

51609 9000 RIVER ROAD BOP210001 E71 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	9.00
Type of Heat Exchange:	Direct
Equipment Type Description:	Aluminum Aging Oven

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.

51609 9000 RIVER ROAD BOP210001 E72 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	3.85
Type of Heat Exchange:	Indirect
Equipment Type Description:	Air Heater

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.

51609 9000 RIVER ROAD BOP210001 E73 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	3.85
Type of Heat Exchange:	Indirect
Equipment Type Description:	Air Heater

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.

51609 9000 RIVER ROAD BOP210001 E208 (Manufacturing and Materials Handling Equipment)
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Band Saw
Capacity:	2.50E+04
Units:	other units
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51609 9000 RIVER ROAD BOP210001 E209 (Manufacturing and Materials Handling Equipment)
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Band Saw
Capacity:	2.50E+04
Units:	other units
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51609 9000 RIVER ROAD BOP210001 E215 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	4.00
Type of Heat Exchange:	Direct
Equipment Type Description:	Aluminum Aging Oven

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.

51609 9000 RIVER ROAD BOP210001 E302 (Manufacturing and Materials Handling Equipment)
Print Date: 4/8/2022

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

51609 9000 RIVER ROAD BOP210001 E303 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	26.50
Type of Heat Exchange:	Direct
Equipment Type Description:	Melting Furnace

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: Furnace is equippped with two (2) 25.6 MMBtu/hr burners; however only one can operate at a time.

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

51609 9000 RIVER ROAD BOP210001 E304 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	26.50
Type of Heat Exchange:	Direct
Equipment Type Description:	Melting Furnace

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: Furnace is equipped with two (2) 25.6 MMBtu/hr burners; however only one can operate at a time.

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

51609 9000 RIVER ROAD BOP210001 E305 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	26.50
Type of Heat Exchange:	Direct
Equipment Type Description:	Melting/Holding Furnace

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: Furnace is equipped with two (2) 25.6 MMBtu/hr burners; however only one can operate at a time.

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

51609 9000 RIVER ROAD BOP210001 E306 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	26.50
Type of Heat Exchange:	Direct
Equipment Type Description:	Melting/Holding Furnace

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: Furnace is equipped with two (2) 25.6 MMBtu/hr burners; however only one can operate at a time.

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

51609 9000 RIVER ROAD BOP210001 E307 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.50
Type of Heat Exchange:	Direct
Equipment Type Description:	Homogenizing Oven

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.

51609 9000 RIVER ROAD BOP210001 E308 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.50
Type of Heat Exchange:	Direct
Equipment Type Description:	Homogenizing Oven

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.

51609 9000 RIVER ROAD BOP210001 E309 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.50
Type of Heat Exchange:	Direct
Equipment Type Description:	Homogenizing Oven

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.

51609 9000 RIVER ROAD BOP210001 E310 (Fuel Combustion Equipment (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.50
Type of Heat Exchange:	Direct
Equipment Type Description:	Homogenizing Oven

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.

51609 9000 RIVER ROAD BOP210001 E1090 (Other Equipment)
Print Date: 4/8/2022

Make:

Manufacturer:

Model:

Equipment Type: Etch Tank.

Capacity:

Units:

Description:

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

- ○ Yes
- ● No

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

- ○ Yes
- ● No

Comments: The etch tank is 54 inches wide, 33 feet long, and 8 feet high. It is made of polypropylene and contains an ammonium difluoride solution (NH4HF2) that is maintained as approximately 113 °F via circulating hot water. The processing rate is approximately 320 m2/hour, or about 1,760 lb/hr depending on the thickness of the material.

9000 RIVER ROAD (51609) Date: 6/20/2022

BOP210001

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	H2SO4tankscr	H2SO4 Tank Scrubber	Scrubber (Other)		No		
CD27	V-785ABaghou	Bandsaw Baghouse A	Particulate Filter (Baghouse)		No		
CD28	V-785B Bagho	Bandsaw Baghouse B	Particulate Filter (Baghouse)		No		
CD31	NaOHscrubber	NaOH Scrubber	Scrubber (Venturi)		No		
CD39	Die Blasting	Cartridge Filter for Abrasive Blasting	Particulate Filter (Cartridge)		No		
CD300	Dross 1	Dross Skimming 1 Baghouse	Particulate Filter (Baghouse)		No		
CD301	Dross 2	Dross Skimming 2 Baghouse	Particulate Filter (Baghouse)		No		
CD1090	Etch Scrub	Etch System wet Scrubber	Scrubber (Packed Tower)	1/1/2017	No		

51609 9000 RIVER ROAD BOP210001 CD2 (Scrubber (Other))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Scrubber Type:	Other
Description:	Fan Separator
Is the Scrubber Used for Particulate Control?	○ Yes ● No
Is the Scrubber Used for Gas Control?	● Yes ○ No
Is the Scrubber Equipped with a Mist Eliminator?	● Yes ○ No
Minimum Pump Discharge Pressure (in. H20):	
Maximum Pump Discharge Pressure (in. H20):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H20):	
Minimum Operating Liquid Flow Rate (gpm):	20.00
Maximum Operating Liquid Flow Rate (gpm):	20.00
Method of Monitoring Liquid Flow Rate:	Scrubber Flow Rate Instrument
Minimum Operating Gas Flow Rate (acfm):	27,000.00
Maximum Operating Gas Flow Rate (acfm):	37,000.00
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H20):	
Maximum Operating Pressure Drop (in. H20):	
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	Co-Current
Description:	
Number of Plates:	
Type of Plates:	
Spacing between Plates (in.):	
Maximum Inlet Gas Temperature (°F):	
Maximum Outlet Gas Temperature (°F):	
Inlet Particle Grain Loading (gr/dscf):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No

○ Yes ● No

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

○ Yes ● No

Comments:

51609 9000 RIVER ROAD BOP210001 CD27 (Particulate Filter (Baghouse))
Print Date: 4/8/2022

Make:	
Manufacturer:	Torit
Model:	20-3FB
Number of Bags:	4
Size of Bags (ft²):	25.00
Total Bag Area (ft²):	100.0
Bag Fabric:	Polyester
Fabric Weight (oz/ft²):	9.50
Fabric Weave:	Plain
Fabric Finish:	Singed
Maximum Design Temperature Capability (°F):	225.0
Maximum Design Air Flow Rate (acfm):	2,000.0
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	20.00
Minimum Operating Pressure Drop (in. H2O):	2.00
Maximum Operating Pressure Drop (in. H2O):	8.00
Method of Monitoring Pressure Drop:	
Maximum Inlet Temperature (°F):	
Minimum Inlet Temperature (°F):	
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhuast Gas Flow Rate (acfm):	2,000.0
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	Visual Inspection
Method for Determining When Cleaning is Required:	
Method of Bag Cleaning:	Other
Description:	Replacement
Is Bag Cleaning Conducted On-Line?	○ Yes ● No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	○ Yes ● No

51609 9000 RIVER ROAD BOP210001 CD27 (Particulate Filter (Baghouse))
Print Date: 4/8/2022

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:

51609 9000 RIVER ROAD BOP210001 CD28 (Particulate Filter (Baghouse))
Print Date: 4/8/2022

Make:	
Manufacturer:	Torit
Model:	20-3FB
Number of Bags:	4
Size of Bags (ft²):	25.00
Total Bag Area (ft²):	100.0
Bag Fabric:	Polyester
Fabric Weight (oz/ft²):	9.50
Fabric Weave:	Plain
Fabric Finish:	Singed
Maximum Design Temperature Capability (°F):	225.0
Maximum Design Air Flow Rate (acfm):	2,000.0
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	20.00
Minimum Operating Pressure Drop (in. H2O):	2.00
Maximum Operating Pressure Drop (in. H2O):	8.00
Method of Monitoring Pressure Drop:	
Maximum Inlet Temperature (°F):	
Minimum Inlet Temperature (°F):	
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhuast Gas Flow Rate (acfm):	2,000.0
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	Visual Inspection
Method for Determining When Cleaning is Required:	
Method of Bag Cleaning:	Other
Description:	Replacement
Is Bag Cleaning Conducted On-Line?	○ Yes ● No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	○ Yes ● No

51609 9000 RIVER ROAD BOP210001 CD28 (Particulate Filter (Baghouse))
Print Date: 4/8/2022

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:

51609 9000 RIVER ROAD BOP210001 CD31 (Scrubber (Venturi))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Is the Scrubber Used for Particulate Control?	○ Yes ● No
Is the Scrubber Used for Gas Control?	● Yes ○ No
Is the Scrubber Equipped with a Mist Eliminator?	● Yes ○ No
Minimum Pump Discharge Pressure (in. H20):	
Maximum Pump Discharge Pressure (in. H20):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H20):	
Minimum Operating Liquid Flow Rate (gpm):	20.00
Maximum Operating Liquid Flow Rate (gpm):	20.00
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	27,000.00
Maximum Operating Gas Flow Rate (acfm):	37,000.00
Method of Monitoring Gas Flow Rate:	Scrubber Flow Rate Monitor
Minimum Operating Pressure Drop (in. H20):	1.50
Maximum Operating Pressure Drop (in. H20):	1.50
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	
Description:	
Throat Length (in):	
Throat Diameter (in):	
Maximum Inlet Gas Temperature (°F):	180.0
Maximum Outlet Gas Temperature (°F):	180.0
Inlet Particle Grain Loading (gr/dscf):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
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

51609 9000 RIVER ROAD BOP210001 CD31 (Scrubber (Venturi))
Print Date: 4/8/2022

Comments: Rwcirculated. Controls NaOH mist.

51609 9000 RIVER ROAD BOP210001 CD39 (Particulate Filter (Cartridge))
Print Date: 4/8/2022

Make:	Guyson
Manufacturer:	Guyson Corporation of USA
Model:	C2401W
Number of Cartridges:	6
Size of Cartridges (ft^2):	226.00
Total Cartridge Area (ft^2):	1,356.00
Maximum Design Temperature Capability (°F):	
Maximum Design Air Flow Rate (acfm):	2,400.0
Maximum Air Flow Rate to Filter Area Ratio:	1.80
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	6.00
Maximum Inlet Temperature (°F):	
Maximum Operating Exhuast Gas Flow Rate (acfm):	2,400.0
Method for Determining When Cartridge Replacement is Required:	Pressure Drop
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	○ Yes ● No
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	○ Yes ● No

Comments:

51609 9000 RIVER ROAD BOP210001 CD300 (Particulate Filter (Baghouse))
Print Date: 4/8/2022

Make:	Mikropul
Manufacturer:	Mikropul
Model:	
Number of Bags:	320
Size of Bags (ft^2):	18.60
Total Bag Area (ft^2):	5,952.0
Bag Fabric:	Polyester or Acrylic
Fabric Weight (oz/ft^2):	1.70
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (°F):	275.0
Maximum Design Air Flow Rate (acfm):	30,000.0
Draft Type:	Induced
Maximum Air Flow Rate to Cloth Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	0.50
Maximum Operating Pressure Drop (in. H2O):	5.00
Method of Monitoring Pressure Drop:	Gauge
Maximum Inlet Temperature (°F):	250.0
Minimum Inlet Temperature (°F):	
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	112
Maximum Operating Exhuast Gas Flow Rate (acfm):	30,000.0
Maximum Inlet Gas Stream Moisture Content (%):	9.50
Method for Determining When Bag Replacement is Required:	Periodic Inspection
Method for Determining When Cleaning is Required:	dP Switch
Method of Bag Cleaning:	Pulse Jet
Description:	
Is Bag Cleaning Conducted On-Line?	○ Yes ● No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	2
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	○ Yes ● No

51609 9000 RIVER ROAD BOP210001 CD300 (Particulate Filter (Baghouse))
Print Date: 4/8/2022

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:

51609 9000 RIVER ROAD BOP210001 CD301 (Particulate Filter (Baghouse))
Print Date: 4/8/2022

Make:	Mikropul
Manufacturer:	Mikropul
Model:	
Number of Bags:	320
Size of Bags (ft²):	18.60
Total Bag Area (ft²):	5,952.0
Bag Fabric:	Polyester or Acrylic
Fabric Weight (oz/ft²):	1.70
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (°F):	275.0
Maximum Design Air Flow Rate (acfm):	30,000.0
Draft Type:	Induced
Maximum Air Flow Rate to Cloth Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	0.50
Maximum Operating Pressure Drop (in. H2O):	5.00
Method of Monitoring Pressure Drop:	Gauge
Maximum Inlet Temperature (°F):	250.0
Minimum Inlet Temperature (°F):	
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	112
Maximum Operating Exhuast Gas Flow Rate (acfm):	30,000.0
Maximum Inlet Gas Stream Moisture Content (%):	9.50
Method for Determining When Bag Replacement is Required:	Periodic Inspection
Method for Determining When Cleaning is Required:	dP Switch
Method of Bag Cleaning:	Pulse Jet
Description:	
Is Bag Cleaning Conducted On-Line?	○ Yes ● No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	2
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	○ Yes ● No

51609 9000 RIVER ROAD BOP210001 CD301 (Particulate Filter (Baghouse))
Print Date: 4/8/2022

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:

51609 9000 RIVER ROAD BOP210001 CD1090 (Scrubber (Packed Tower))
Print Date: 4/8/2022

Make:	
Manufacturer:	
Model:	
Is the Scrubber Used for Particulate Control?	(●) Yes ( ) No
Is the Scrubber Used for Gas Control?	( ) Yes (●) No
Is the Scrubber Equipped with a Mist Eliminator?	(●) Yes ( ) No
Minimum Pump Discharge Pressure (in. H20):	
Maximum Pump Discharge Pressure (in. H20):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H20):	
Minimum Operating Liquid Flow Rate (gpm):	15.00
Maximum Operating Liquid Flow Rate (gpm):	30.00
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	
Maximum Operating Gas Flow Rate (acfm):	11,800.00
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H20):	
Maximum Operating Pressure Drop (in. H20):	
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Height of Packed Section (ft):	
Type of Packing Material:	
Size of Packing Material (in):	
Tower Diameter (ft):	
Total Tower Height (ft):	
Maximum Operating Temperature of the Inlet Gas (°F):	
Maximum Operating Temperature of the Exhuast Gas(°F):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	( ) Yes (●) No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	( ) Yes (●) No

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

○ Yes ● No

Comments:

Water is the scrubbing medium, which is recirculated. Sodium hydroxide is added for neutralization purposes to maintain pH.

9000 RIVER ROAD (51609)
BOP210001

Date: 6/20/2022

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT2	601	Makeup Air Heater 601	Rectangle	45	32	120	150.0	125.0	175.0	953.0	858.0	1,048.0	Up	
PT8		Etch Plating Line	Round	62	30	375	165.0	150.0	180.0	37,000.0	33,300.0	40,700.0	Up	
PT12	H2SO4	Sulfuric Acid Treatment	Round	62	30	375	165.0	150.0	180.0	37,000.0	33,300.0	40,700.0	Up	
PT13	1302	Billet Furnace	Round	10	15	250	800.0	750.0	850.0	1,557.0	1,401.0	1,713.0	Up	
PT14	1315	Aging Oven 1315	Round	13	15	250	300.0	275.0	325.0	1,547.0	1,392.0	1,702.0	Up	
PT22	1470	Space Heater 1470	Rectangle	45	32	250	400.0	375.0	425.0	1,035.0	931.0	1,139.0	Up	
PT23	727	Space Heater 727	Rectangle	45	32	300	400.0	375.0	425.0	663.0	597.0	729.0	Up	
PT24	728	Space Heater 728	Rectangle	45	32	300	400.0	375.0	425.0	663.0	597.0	729.0	Up	
PT26	726	Space Heater 726	Rectangle	45	32	300	400.0	375.0	425.0	497.0	447.0	547.0	Up	
PT38	1409	Holding Furnace 1409 Stack (E38)	Square	54	65	135	1,400.0	1,350.0	1,450.0	15,089.0	13,580.0	16,170.0	Up	
PT44	800	Billet Furnace	Round	24	15	275	800.0	750.0	850.0	2,165.0	1,948.0	2,382.0	Up	
PT49	1701-05A	Boiler 1701-05-A	Round	16	45	350	400.0	375.0	425.0	1,858.0	1,672.0	2,044.0	Up	
PT50	1701-05B	Boiler 1701-05-B	Round	16	45	350	400.0	375.0	425.0	1,858.0	1,672.0	2,044.0	Up	
PT52	600	Space Heater 600	Rectangle	6	15	200	400.0	375.0	425.0	1,367.0	1,230.0	1,504.0	Up	
PT57	1667	Space Heater 1667	Rectangle	6	15	200	400.0	375.0	425.0	725.0	652.0	798.0	Up	
PT59	158	Aging Oven 158	Round	16	15	250	300.0	275.0	325.0	1,535.0	1,381.0	1,689.0	Up	
PT61	703	Space Heater 703	Rectangle	6	15	200	400.0	375.0	425.0	497.0	472.0	522.0	Up	
PT62	538	Aging Oven 538	Round	16	15	250	300.0	275.0	325.0	912.0	821.0	1,003.0	Up	
PT70	1903	Billet Furnace	Round	24	15	200	800.0	750.0	850.0	1,056.0	950.0	1,162.0	Up	

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New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT71	1928	Aging Oven 1928	Round	23	20	272	300.0	275.0	325.0	6,839.0	6,155.0	7,523.0	Up	
PT72	1731	Rapid Heating System 1731	Rectangle	6	15	170	400.0	375.0	425.0	1,139.0	1,025.0	1,253.0	Up	
PT73	1732	Rapid Heating System 1732	Rectangle	6	15	270	400.0	375.0	425.0	1,139.0	1,025.0	1,253.0	Up	
PT208	V-785A	Bandsaw	Round	36	15	100	70.0	32.0	100.0	2,000.0	1,800.0	2,200.0	Up	
PT209	V-785B	Bandsaw	Round	36	16	100	70.0	32.0	100.0	2,000.0	1,800.0	2,200.0	Up	
PT215	928	Aging Oven 928	Round	16	15	250	300.0	275.0	325.0	912.0	821.0	1,003.0	Up	
PT302		Billet Furnace	Round	24	15	300	800.0	750.0	850.0	3,036.0	2,399.0	3,714.0	Up	
PT303		Melting Furnace Stack (E303)	Square	54	65	135	571.0	546.0	598.0	9,228.0	6,678.0	11,141.0	Up	
PT304		Melting Furnace Stack (E304)	Square	54	65	135	571.0	546.0	598.0	9,228.0	6,678.0	11,141.0	Up	
PT307		Homogenizing Oven	Rectangle	48	32	250	1,000.0	950.0	1,050.0	740.0	588.0	900.0	Up	
PT308		Homogenizing Oven	Rectangle	48	32	250	1,000.0	950.0	1,050.0	740.0	588.0	900.0	Up	
PT309		Homogenizing Oven	Rectangle	48	32	250	1,000.0	950.0	1,050.0	740.0	588.0	900.0	Up	
PT310		Homogenizing Oven	Rectangle	48	32	250	1,000.0	950.0	1,050.0	740.0	588.0	900.0	Up	
PT311		Dross 1	Round			135	95.0	75.0	275.0	25,500.0	21,000.0	30,000.0	Up	
PT312		Dross 2	Round	64	28	135	95.0	75.0	275.0	25,500.0	21,000.0	30,000.0	Up	
PT750	Delair Vents	Combined Roof Ventilators-Delair Building	Round	366	30	720	70.0	32.0	100.0	1,557,240.0	1,445,589.0	1,645,386.0	Up	
PT850		Melting?Holding Furnace Stack (E305/E306)	Round	36	65	135	460.0	375.0	550.0	13,200.0	12,000.0	16,000.0	Up	
PT1090	Etch Scrubbe	Etch Ecrubber Exhaust	Round	36	40	268	70.0	60.0	80.0	11,800.0	11,800.0	11,800.0	Up	

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

U 1 4Billet Furn Four Billet Furnaces Used to Heat and Extrude Aluminum (NG Fired)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS2	NG-B. Furnac	5.5 MMBTU/hr Billet Furnace 1302 (E13)	Normal - Steady State	E13		PT13	3-90-001-99	0.0	8,760.0		1,392.0	1,702.0	750.0	850.0
OS6	NG-B. Furnac	9.76 MMBTU/hr Billet Furnace 662 (E44)	Normal - Steady State	E44		PT44	3-90-001-99	0.0	8,760.0		1,948.0	2,382.0	750.0	850.0
OS8	NG-B. Furnac	8.65 MMBTU/hr Billet Furnace 1903 (E70)	Normal - Steady State	E70		PT70	3-90-001-99	0.0	8,760.0		950.0	1,162.0	750.0	850.0
OS11	NG-B. Furnac	7.135 MMBTU/hr Billet Furnace (E302)	Normal - Steady State	E302		PT302	3-90-001-99	0.0	8,760.0		2,399.0	3,714.0	750.0	850.0

U 2 Makeup Heat Make-up Air Heater

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	NG-Heater	4.62 MMBTU/hr Make-up Air Heater 601 (E2)	Normal - Steady State	E2		PT2	1-05-001-06	0.0	8,760.0		858.0	1,048.0	125.0	175.0

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

U 5 Abrs. Blstg. Confined Abrasive Blasting Equipment for Die Cleaning (Discharging into Building)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Abrs. Blstg.	Confined Abrasive Blasting Equipment.	Normal - Steady State	E223	CD39 (P)		3-09-002-04	0.0	8,760.0		1,000.0	2,000.0	32.0	100.0

U 7 Etch Plating Etch Plating with Fan Separator Scrubber

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Etch Plating	4,700 lb/hr Aluminum Etch Plating Line (E8)	Normal - Steady State	E8	CD31 (P)	PT8	3-99-999-98	0.0	8,760.0		33,300.0	40,700.0	150.0	180.0

U 11 4Aging Ovens Four Aluminum Aging Ovens

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS3	Oven - E59	2.02 MMBTU/hr Aging Oven 158 (E59)	Normal - Steady State	E59		PT59	3-90-001-99	0.0	8,760.0		1,381.0	1,689.0	275.0	325.0

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Emission Unit/Batch Process Inventory

U 11 4Aging Ovens Four Aluminum Aging Ovens

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS4	Oven - E62	1.2 MMBTU/hr Aging Oven 538 (E62)	Normal - Steady State	E62		PT62	3-90-001-99	0.0	8,760.0		821.0	1,003.0	275.0	325.0
OS6	Oven - E71	9 MMBTU/hr Aging Oven 1928 (E71)	Normal - Steady State	E71		PT71	3-90-001-99	0.0	8,760.0		6,155.0	7,523.0	275.0	325.0
OS7	Oven - E215	4 MMBTU/hr Aging Oven 928 (E215)	Normal - Steady State	E215		PT215	3-90-001-99	0.0	8,760.0		821.0	1,003.0	275.0	325.0

U 13 H2SO4 Tanks Two Sulfuric Acid Treatment Tanks with Fan Separator Scrubber (E12 and E16)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	AcidTank-E12	4,200 lb/hr Sulfuric Acid Treatment Tank (E12)	Normal - Steady State	E12	CD2 (P)	PT12	3-99-999-98	0.0	8,760.0		33,300.0	40,700.0	150.0	180.0
OS2	AcidTank-E16	4,200 lb/hr Sulfuric Acid Treatment Tank (E16)	Normal - Steady State	E16	CD2 (P)	PT12	3-99-999-98	0.0	8,760.0		33,000.0	40,700.0	150.0	180.0

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Emission Unit/Batch Process Inventory

U 15 7Space Heat Seven Space Heaters.

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Heater-E22	3.5 MMBTU/hr Space Heater 1470 (E22)	Normal - Steady State	E22		PT22	1-05-001-06	0.0	8,760.0		931.0	1,139.0	375.0	425.0
OS2	Heater-E23	2.24 MMBTU/hr Space Heater 727 (E23)	Normal - Steady State	E23		PT23	1-05-001-06	0.0	8,760.0		597.0	729.0	375.0	425.0
OS3	Heater-E24	2.24 MMBTU/hr Space Heater 728 (E24)	Normal - Steady State	E24		PT24	1-05-001-06	0.0	8,760.0		597.0	729.0	375.0	425.0
OS4	Heater-E26	1.675 MMBTU/hr Space Heater 726 (E26)	Normal - Steady State	E26		PT26	1-05-001-06	0.0	8,760.0		447.0	547.0	375.0	425.0
OS5	Heater-E52	4.62 MMBTU/hr Space Heater 600 (E52)	Normal - Steady State	E52		PT52	1-05-001-06	0.0	8,760.0		1,230.0	1,504.0	375.0	425.0
OS6	Heater-E57	2.45 MMBTU/hr Space Heater 1667 (E57)	Normal - Steady State	E57		PT57	1-05-001-06	0.0	8,760.0		652.0	798.0	375.0	425.0
OS8	Heater-E61	1.675 MMBTU/hr Space Heater 703 (E61)	Normal - Steady State	E61		PT61	1-05-001-06	0.0	8,760.0		472.0	522.0	375.0	425.0

U 16 4Homog Ovens Four homogenizing ovens (NG Fired)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS7	NG-Oven E307	1.5 MMBTU/hr Homogenizing Oven, Firing NG (E307)	Normal - Steady State	E307		PT307	3-90-001-99	0.0	8,760.0		588.0	900.0	950.0	1,050.0

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

U 16 4Homog Ovens Four homogenizing ovens (NG Fired)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS8	NG-Oven E308	1.5 MMBTU/hr Homogenizing Oven, Firing NG (E308)	Normal - Steady State	E308		PT308	3-90-001-99	0.0	8,760.0		588.0	900.0	950.0	1,050.0
OS9	NG-Oven E309	1.5 MMBTU/hr Homogenizing Oven, Firing NG (E309)	Normal - Steady State	E309		PT309	3-90-001-99	0.0	8,760.0		588.0	900.0	950.0	1,050.0
OS10	NG-Oven E301	1.5 MMBTU/hr Homogenizing Oven, Firing NG (E310)	Normal - Steady State	E310		PT310	3-90-001-99	0.0	8,760.0		588.0	900.0	950.0	1,050.0

U 23 Group 2 Furn One Holding Furnace for Molten Aluminum

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	NG-Furna-E38	9 MMBTU/hr Holding Furnace 1409 (E38), NG Fired	Normal - Steady State	E38		PT38	3-04-001-99	0.0	8,286.0		13,580.0	16,170.0	1,350.0	1,450.0

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Emission Unit/Batch Process Inventory

U 24 Group 1 Furn Two Melting Furnaces, Two Melting/Holding Furnaces

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS7	Furnace (NG)	26.5 MMBTU/hr Melting Furnace (E303), Firing NG	Normal - Steady State	E303		PT303	3-04-001-99 3-04-999-99	0.0	8,592.0		6,678.0	11,141.0	546.0	598.0
OS9	Furnace (NG)	26.5 MMBTU/hr Melting Furnace (E304), Firing NG	Normal - Steady State	E304		PT304	3-04-001-99 3-04-999-99	0.0	8,592.0		6,678.0	11,141.0	546.0	598.0
OS11	Furnace (NG)	26.5 MMBTU/hr Melting/Holding Furnace (E305), Firing NG	Normal - Steady State	E305		PT850	3-04-999-99 3-04-001-99	0.0	8,592.0		10,393.0	15,900.0	1,350.0	1,450.0
OS13	Furnace (NG)	26.5 MMBTU/hr Melting/Holding Furnace (E306), Firing NG	Normal - Steady State	E306		PT850	3-04-001-99 3-04-999-99	0.0	8,592.0		10,393.0	15,900.0	1,350.0	1,450.0
OS15	Dross	Dross Skimming in Melting Furnace E303.	Normal - Steady State	E303	CD300 (P)	PT311	3-04-001-03	0.0	5,840.0		21,000.0	30,000.0		275.0
OS16	Dross	Dross Skimming in Melting Furnace E304.	Normal - Steady State	E304	CD300 (P)	PT311	3-04-001-03	0.0	5,840.0		21,000.0	30,000.0		275.0
OS17	Dross	Dross Skimming in Melting/Holding Furnace E305.	Normal - Steady State	E305	CD301 (P)	PT312	3-04-001-03	0.0	5,855.0		21,000.0	30,000.0		275.0
OS18	Dross	Dross Skimming in Melting/Holding Furnace E306.	Normal - Steady State	E306	CD301 (P)	PT312	3-04-001-03	0.0	5,855.0		21,000.0	30,000.0		275.0

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Emission Unit/Batch Process Inventory

U 25 Oven Aging Oven 1315

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS2	NG-Oven E14	5.5 MMBTU/hr Natural Gas Fired Aging Oven 1315 (E14)	Normal - Steady State	E14		PT14	3-04-900-03	0.0	8,760.0		1,392.0	1,702.0	275.0	325.0

U 26 2 Boilers Two 6.275 MMBTU/hr NG Fired Boilers

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS4	Boiler-E49	6.275 MMBTU/hr Boiler 1701-05A (E49)	Normal - Steady State	E49		PT49	1-02-006-02	0.0	8,760.0		1,672.0	2,044.0	375.0	425.0
OS5	Boiler-E50	6.275 MMBTU/hr Boiler 1701-05B (E50)	Normal - Steady State	E50		PT50	1-02-006-02	0.0	8,760.0		1,672.0	2,044.0	375.0	425.0

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

U 29 Rapid Heat Two 3.85 MMBTU/hr Rapid Heating Systems

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1		3.85 MMBTU/hr Rapid Heating System 1731 (E72)	Normal - Steady State	E72		PT72	1-05-001-06	0.0	8,760.0		1,025.0	1,253.0	375.0	425.0
OS2		3.85 MMBTU/hr Rapid Heating System 1732 (E73)	Normal - Steady State	E73		PT73	1-05-001-06	0.0	8,760.0		1,025.0	1,253.0	375.0	425.0

U 45 2DoAlls Two 25,000 lb/hr DoAll Bandsaws (E208 and E209)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1		25,000 lb/hr DoAll Bandsaw V-785A (E208)	Normal - Steady State	E208	CD27 (P)	PT208	3-09-999-99	0.0	8,760.0		1,800.0	2,200.0	32.0	100.0
OS2		25,000 lb/hr DoAll Bandsaw V-785B (E209)	Normal - Steady State	E209	CD28 (P)	PT209	3-09-999-99	0.0	8,760.0		1,800.0	2,200.0	32.0	100.0

9000 RIVER ROAD (51609)
BOP210001

Date: 6/20/2022

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

U 90 Etch Tank Aluminum Anodizing Line

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Anod Line	Aluminum Anodizing Line	Normal - Steady State	E1090	CD1090 (P)	PT1090	3-99-999-98	0.0	8,760.0		11,800.0	11,800.0	60.0	80.0

Date: 6/20/2022

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR1 Fac-Wide NG

Members:

Type	ID	OS	Step
U	U 1	OS0 Summary	
U	U 11	OS0 Summary	
U	U 15	OS0 Summary	
U	U 16	OS0 Summary	
U	U 2	OS0 Summary	
U	U 23	OS0 Summary	
U	U 24	OS0 Summary	
U	U 25	OS0 Summary	
U	U 26	OS0 Summary	
U	U 29	OS0 Summary	

Formal Reason(s) for Group/Cap:

☑ Other

Other (explain): Facility-wide natural gas usage limitation

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances: