

Facility DEC ID: 6304400126

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 6-3044-00126/00002
Mod 0 Effective Date: 07/24/2019 Expiration Date: 07/23/2029
Mod 1 Effective Date: 08/14/2020 Expiration Date: 07/23/2029
Mod 2 Effective Date: 06/17/2021 Expiration Date: 07/23/2029
Mod 3 Effective Date: 04/29/2022 Expiration Date: 07/23/2029

Permit Issued To: WOLFSPEED INC
4600 SILICON DR
DURHAM, NC 27703

Contact: Joel Rouillard
WOLFSPEED
5757 MARCY-SUNY PKWY
MARCY, NY 13403
(207) 408-2738

Facility: WOLFSPEED - Mohawk Valley FAB
5757 Marcy-SUNY Pkwy
Marcy, NY 13403

Description:
This State Facility Permit modification is issued pursuant to Article 19 (Air Pollution Control) of the Environmental Conservation Law, an Air State Facility Permit, at the facility located at Wolfsped; 5757 Marcy-SUNY Parkway; Marcy, NY 13403

The permit modification allows for the changes to the operations in this state-of-the-art semiconductor manufacturing facility.

The State Facility Permit modification allows for the operations of emission units 1-COMBS and 1-FABOP. Emission unit 1-COMBS includes the operation of several boilers to provide heat and process water to the facility which includes four boilers rated at 37.5MMBtu/hr on Natural gas. Emission unit 1-FABOP includes the manufacture of high-performance analog semiconductors through the process of photolithography, wet-dry etching, plating, thermal processing, implant, wafer board, dielectric disposition, and cleaning operations. The facility has also conducted a review for the control of toxic ambient air contaminants in New York State based on the requirements of 6NYCRR Part 212. There is an emergency generators associated with the facility that is subject to 40 CFR 60 subpart IIII and a cold cleaning operation subject to 6 NYCRR Part 226. The facility is currently classified as a minor facility, since there are no federeally enforcable CAPs in this State Facility Permit.

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By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: TERRY R TYOE
 NYSDEC - UTICA SUBOFFICE
 207 GENESEE ST
 UTICA, NY 13501-2885

Authorized Signature: _____ Date: ___ / ___ / _____

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Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

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Facility Level

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DEC GENERAL CONDITIONS
****** General Provisions ******
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before the expiration of permits for Title V and State Facility Permits.

Item 3.3

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

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Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 5: Submission of application for permit modification or renewal-REGION 6
SUBOFFICE - UTICA
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 6 Sub-office
Division of Environmental Permits
State Office Building, 207 Genesee Street
Utica, NY 13501-2885
(315) 793-2555

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: WOLFSPEED INC
4600 SILICON DR
DURHAM, NC 27703

Facility: WOLFSPEED - Mohawk Valley FAB
5757 Marcy-SUNY Pkwy
Marcy, NY 13403

Authorized Activity By Standard Industrial Classification Code:
3674 - SEMICONDUCTORS & RELATED DEVICES

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Mod 1 Permit Effective Date: 08/14/2020

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FEDERALLY ENFORCEABLE CONDITIONS

Mod 3/FINAL

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications,

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required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

(a) Except as otherwise provided by this Part, construction or operation of a new, modified or existing air contamination source without a registration or permit issued pursuant to this Part is prohibited.

(b) If an existing facility or emission source was subject to the permitting requirements of this Part at the time of construction or modification, and the owner or operator failed to apply for a permit or registration as described in this Part, the owner or operator must apply for a permit or registration in accordance with the provisions of this Part. The facility or emission source is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing emission sources.

Item E: Recycling and Salvage - 6 NYCRR 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item F: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item G: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request.

Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item H: Proof of Eligibility for Sources Defined as Trivial

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Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item I: Required Emission Tests - 6 NYCRR 202-1.1

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item J: Open Fires Prohibitions - 6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item K: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item L: Federally Enforceable Requirements - 40 CFR 70.6 (b)

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All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 5: Notification
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 202-1.2

Item 5.1:

A person who is required by the commissioner to submit a stack test report shall notify the commissioner, in writing, not less than 30 days prior to the test, of the time and date of the test. Such notification shall also include the acceptable procedures to be used to stack test including sampling and analytical procedures. Such person shall allow the commissioner, or his representative, free access to observe stack testing being conducted by such person.

Condition 6: Acceptable procedures
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 6.1:

Emission testing, sampling, and analytical determinations to ascertain compliance with this Subpart shall be conducted in accordance with test methods acceptable to the commissioner.

Condition 7: Acceptable procedures - Stack test report submittal
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 7.1:

Emission test reports must be submitted in triplicate to the commissioner within 60 days after the completion of the tests, unless additional time is requested in writing.

Condition 8: Separate emission test by the commissioner
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 202-1.4

Item 8.1:

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The commissioner may conduct separate or additional emission tests on the behalf of the State to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.

Condition 9: Prohibitions
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 202-1.5

Item 9.1:
No person shall conceal an emission by the use of air or other gaseous diluents to achieve compliance with an emission standard which is based on the concentration of a contaminant in the gases emitted through a stack.

Condition 10: Visible Emissions Limited
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 211.2

Item 10.1:
Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Condition 11: Compliance Demonstration
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 212-1.6 (a)

Item 11.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 11.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No facility owner or operator shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source or emission point, except for the emission of uncombined water.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: Method 9
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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Condition 2-2: Compliance Demonstration

Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 225-1.2 (d)

Item 2-2.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 2-2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners or operators of emission sources that fire distillate oil are limited to a 0.0015 percent sulfur content by weight of the fuel. Compliance with the sulfur-in-fuel limitation is based on fuel vendor receipts. All fuel vendor receipts must be maintained on site or at a Department approved alternative location for a minimum of five years.

Note - Process sources and incinerators must comply with the above requirements on or after July 1, 2023.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 12 calendar month(s).

Condition 2-3: Compliance Demonstration

Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 225-1.6 (f)

Item 2-3.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 2-3.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must maintain records of excess

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emissions. The owner or operator must submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable equivalent emission rate, and the nature and cause of such exceedances if known, for each calendar quarter, within 30 days after the end of any quarterly period in which an exceedance[s] takes place. These records must be kept on site or at a Department approved alternative location for a minimum of five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 3 calendar month(s).

Condition 2-4: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement: 6 NYCRR 226-1.4 (a) (4) (iii)

Item 2-4.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 1-FABOP

Process: SOX

Emission Source: CLEA1

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 2-4.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall ensure that the enclosure used within the tools for the cold cleaning degreasing operation are operating as a permanent total enclosure (PTE) along with having control equipment that is designed and operated with an overall VOC removal efficiency of 90 percent or greater, in order to be exempt from the cleaning solution maximum VOC limits.

The facility has indicated that the cleaning tools have sealed chambers that operate under vacuums. These chambers have internal leak detectors that are interlocked with the tool. In order to ensure the enclosure is a permanent total enclosure the facility shall keep records

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Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 12 calendar month(s).

Condition 2-6: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 227-1.4 (a)

Item 2-6.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 2-6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No owner or operator of a stationary combustion installation subject to this Subpart shall operate an emission source which exhibits greater than 20 percent opacity (based on a six minute average), except for one 6 minute period per hour of not more than 27 percent opacity. The owner or operator will conduct a Method 9 test annually. A report of the results of the test will be submitted to the Department within 30 days of the completion of the Method 9 test. All records generated by the permittee must be maintained at the facility or at an alternative location approved by the Department for a minimum of five years.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR 60, Appendix A, Method 9

Monitoring Frequency: ANNUALLY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 13: Surface Coating- Prohibitions
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 228-1.3 (c)

Item 13.1:

(1) No person shall sell, supply, offer for sale, solicit, use, specify, or require for use, the application of a coating on a part or product at a facility with a coating line described in Subpart 228-1.1(a) if such sale, specification, or use is prohibited by any of the provisions of this Subpart. The prohibition shall apply to all written or oral contracts under the terms of which any

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coating is to be applied to any part or product at an affected facility. This prohibition shall not apply to the following:

(i) coatings utilized at surface coating lines where control equipment has been installed to meet the maximum permitted VOC content limitations specified in the tables of Subpart 228-1.4;

(ii) coatings utilized at surface coating lines where a coating system is used which meets the requirements specified in Subpart 228-1.5(d); and

(iii) coatings utilized at surface coating lines that have been granted variances pursuant to Subpart 228-1.5(e).

(2) Any person selling a coating for use in a coating line subject to Subpart 228-1 must, upon request, provide the user with certification of the VOC content of the coating supplied.

Condition 2-7: Applicability

Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement:40CFR 60, NSPS Subpart IIII

Item 2-7.1:

Facilities that have stationary compression ignition internal combustion engines must comply with applicable portions of 40 CFR 60 Subpart IIII.

Condition 3-1: Compliance Demonstration

Effective between the dates of 04/29/2022 and 07/23/2029

Applicable Federal Requirement:40CFR 60.4205(b), NSPS Subpart IIII

Item 3-1.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 3-1.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a 2007 model year or later emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power less than 2,237 kW (3,000 HP) that is not a fire pump engine and a displacement of less than 10 liters/cylinder will require certification to the emission standards for new nonroad CI engines in 40 CFR 1039 appendix I, as applicable, for all pollutants, for the same model year and maximum engine power. Compliance with this requirement will be established by purchasing an engine certified to the emission standard referenced above and having it installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on-site.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 2-9: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement:40CFR 60.4206, NSPS Subpart IIII

Item 2-9.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 2-9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners and operators of stationary combustion ignition internal combustion engine (CI ICE) must operate and maintain the stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 3-2: Compliance Demonstration
Effective between the dates of 04/29/2022 and 07/23/2029

Applicable Federal Requirement:40CFR 60.4207(b), NSPS Subpart IIII

Item 3-2.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 3-2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Beginning October 1, 2010, the owner or operator of a stationary compression ignition internal combustion engine which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire diesel fuel which exceeds a sulfur content of 15 ppm as referenced in 40 CFR Part 1090.30. Compliance with the sulfur content shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the sulfur content or range of sulfur content for each shipment of diesel fuel

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provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DIESEL OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 15 parts per million by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2023.
Subsequent reports are due every 12 calendar month(s).

Condition 2-10: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement: 40CFR 60.4207(b), NSPS Subpart IIII

Item 2-10.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 2-10.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Beginning October 1, 201007, the owner or operator of a stationary compression ignition internal combustion engine which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire diesel fuel above a maximum aromatic content of 35 percent per gallon or below a minimum cetane index of 40 per gallon as referenced in 40 CFR Part 1090.305. Compliance with the aromatic content option shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the aromatic content for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DIESEL OIL
Parameter Monitored: AROMATIC CONTENT
Upper Permit Limit: 35 percent
Monitoring Frequency: PER DELIVERY

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Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 12 calendar month(s).

Condition 2-11: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement: 40CFR 60.4207(b), NSPS Subpart IIII

Item 2-11.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 2-11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Beginning October 1, 2007, the owner or operator of a stationary compression ignition internal combustion engine which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire diesel fuel below a minimum cetane index of 40 per gallon or above a maximum aromatic content of 35 percent per gallon as referenced in 40 CFR Part 1090.305. Compliance with the cetane index option shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the cetane index for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL

Parameter Monitored: CETANE INDEX

Lower Permit Limit: 40 ratio

Monitoring Frequency: PER DELIVERY

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE AT ANY TIME

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 12 calendar month(s).

**Condition 2-13: Stationary CI-IC Engines - Installation and importing
deadlines for engines produced in the previous model year**
Effective between the dates of 06/17/2021 and 07/23/2029

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Applicable Federal Requirement: 40CFR 60.4208, NSPS Subpart IIII**Item 2-13.1:**

Owners or operators are subject to the following deadlines for importing or installing stationary compression ignition internal combustion engines (CI-ICE) produced in the previous model year:

- (a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.
- (b) After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines.
- (c) After December 31, 2014, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines.
- (d) After December 31, 2013, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines.
- (e) After December 31, 2012, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines.
- (f) After December 31, 2016, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines.
- (g) After December 31, 2018, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power greater than or equal to 600KW (804 HP) and less than 2,000 KW (2,680 HP) and a displacement of greater than or equal to 10 liters per cylinder that do not meet the applicable requirements for 2017 model year non-emergency engines.
- (h) In addition to the requirements specified in 40 CFR 60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import a stationary CI ICE with a displacement of less than 30 liters per cylinder that does not meet the applicable requirements specified in paragraphs (a) through (g) above after the dates specified in those paragraphs.
- (i) The deadlines listed above do not apply to owners or operators of a stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

Condition 2-14: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

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Applicable Federal Requirement:40CFR 60.4209(a), NSPS Subpart IIII

Item 2-14.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 2-14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an emergency stationary compression ignition IC engine must install and maintain a non-resettable hour meter prior to startup to monitor engine usage

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 12 calendar month(s).

Condition 2-15: Compliance Demonstration

Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement:40CFR 60.4211(a), NSPS Subpart IIII

Item 2-15.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 2-15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary CI internal combustion engine must comply with the emission standards specified in 40 CFR 60 Subpart IIII and must do all of the following:

- (1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
- (2) Change only those emission-related settings that are permitted by the manufacturer; and
- (3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to the facility

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Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 2-16: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement:40CFR 60.4211(c), NSPS Subpart IIII

Item 2-16.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 2-16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power.

The engine must be installed and configured according to the manufacturer's specifications.

The manufacturer's certification of conformity with the emission standards specified in 40 CFR 60 Subpart IIII for major pollutants will be sent to the Department prior to commencement of operation of the engines.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 2-17: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement:40CFR 60.4214(b), NSPS Subpart IIII

Item 2-17.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 2-17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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Monitoring Description:

For stationary CI internal combustion engines that are emergency stationary internal combustion engines, the owner or operator is not required to submit an initial notification.

Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter.

The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 2-18: General Provisions

Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement:40CFR 60.4218, NSPS Subpart IIII

Item 2-18.1:

Table 8 of Subpart IIII shows which parts of the general provisions in §§60.1-60.19 (Subpart A) apply to any facility that is subject to 40 CFR 60, Subpart IIII.

Condition 3-3: Applicability

Effective between the dates of 04/29/2022 and 07/23/2029

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 3-3.1:

Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ.

****** Emission Unit Level ******

Condition 27: Compliance Demonstration

Effective between the dates of 07/24/2019 and 07/23/2029

Applicable Federal Requirement:40CFR 60.48c(a), NSPS Subpart Dc

Item 27.1:

The Compliance Demonstration activity will be performed for:

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Emission Unit: 1-COMBS

Item 27.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner and operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7 of this part. This notification shall include:

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- (2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR 60.42c., or 40 CFR 60.43c.
- (3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 3-4: Alternative Recordkeeping
Effective between the dates of 04/29/2022 and 07/23/2029

Applicable Federal Requirement:40CFR 60.48c(g)(2), NSPS Subpart Dc

Item 3-4.1:

This Condition applies to Emission Unit: 1-COMBS

Item 3-4.2:

As an alternative to meeting the requirements of 40 CFR 60.48c(g)(1), the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

Condition 33: Compliance Demonstration
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 228-1.3 (a)

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Item 33.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 33.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. Compliance will be determined by conducting daily observations of visible emissions from the emission unit, process, etc. to which this condition applies. The observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow). Observations must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- date and time of day
- observer's name
- identity of emission point
- weather condition
- was a plume observed?

This logbook must be retained at the facility for five (5) years after the date of the last entry. If the operator observes any visible emissions (other than steam – see below) the permittee will immediately investigate any such occurrence and take corrective action, as necessary, to reduce or eliminate the emissions. If visible emissions persist after corrections are made, the permittee will immediately notify the department and may be required to conduct a Method 9 assessment within 24 hours to determine the degree of opacity.

Records of these observations, investigations and corrective actions will be kept on-site in a format acceptable to the department and the semiannual progress report and annual compliance certifications required of all permittees subject to Title V must include a summary of these instances.

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The

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distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Reference Test Method: Method 9
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
 Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 34: Compliance Demonstration
 Effective between the dates of 07/24/2019 and 07/23/2029

Applicable Federal Requirement: 6 NYCRR 228-1.3 (b) (1)

Item 34.1:
 The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Item 34.2:
 Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

The owner or operator of an emission source subject to 6 NYCRR Part 228-1 must maintain the following records in a format acceptable to the department for a period of at least five years:

1. A certification from the coating supplier or manufacturer which lists the parameters used to determine the actual VOC content of each as applied coating used at the facility.
2. Purchase, usage and/or production records of each coating material, including solvents.
3. Records identifying each air cleaning device that has an overall removal efficiency of at least 90 percent.
4. Records verifying each parameter used to calculate the overall removal efficiency, as described in Equation 2 of

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Section 228-1.5(c), if applicable.

5. Any additional information required to determine compliance with Part 228-1.

Upon request, the owner or operator of an emission source subject to 6 NYCRR Part 228-1 must submit a copy of the records kept in accordance with this condition to the department within 90 days of receipt of the request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 35: Compliance Demonstration
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable Federal Requirement: 6 NYCRR 228-1.3 (d)

Item 35.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Item 35.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Within the work area(s) associated with a coating line, the owner or operator of a facility subject to this Subpart must:

- (a) use closed, non-leaking containers to store or dispose of cloth or other absorbent applicators impregnated with VOC solvents that are used for surface preparation, cleanup or coating removal;
- (b) store in closed, non-leaking containers spent or fresh VOC solvents to be used for surface preparation, cleanup or coating removal;
- (c) not use VOC solvents to cleanup spray equipment unless equipment is used to collect the cleaning compounds and to minimize VOC evaporation;
- (d) not use open containers to store or dispense surface coatings and/or inks unless production, sampling, maintenance or inspection procedures require operational access. This provision does not apply to the actual device or equipment designed for the purpose of applying a coating material to a substrate. These

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- devices may include, but are not limited to: spray guns, flow coaters, dip tanks, rollers, knife coaters, and extrusion coaters;
- (e) not use open containers to store or dispose of spent surface coatings, or spent VOC solvents;
 - (f) minimize spills during the handling and transfer of coatings and VOC solvents; and
 - (g) clean hand held spray guns by one of the following:
 - (1) an enclosed spray gun cleaning system that is kept closed when not in use;
 - (2) non-atomized discharge of VOC solvent into a paint waste container that is kept closed when not in use;
 - (3) disassembling and cleaning of the spray gun in a vat that is kept closed when not in use; or
 - (4) atomized spray into a paint waste container that is fitted with a device designed to capture atomized VOC solvent emissions.

Open containers, if found, shall be covered and such deviations shall be noted in a log maintained in the operating area. The log shall include the following information:

- date and time of observation
- description of observed deviation from this permit condition
- corrective measures taken, if necessary.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2020.
 Subsequent reports are due every 6 calendar month(s).

Condition 2-19: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement: 6 NYCRR 228-1.5 (c)

Item 2-19.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Regulated Contaminant(s):
 CAS No: 0NY998-00-0 VOC

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Item 2-19.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The overall removal efficiency of an air cleaning device used as a control strategy must be determined, for every surface coating formulation, on a solids as applied basis using Equation 2 unless a 90 percent or greater overall removal efficiency is achieved by the air cleaning device as determined by Equation 2 presented under an Optional Condition.

As per 6 NYCRR 228-1.3(b)(1), a facility owner or operator must maintain a record that identifies each air cleaning device that has an overall removal efficiency of at least 90 percent. Any additional information required to determine compliance with this Part must be provided to the department in a format acceptable to the department. All records required by this condition must be maintained at the facility for a period of five years.

Parameter Monitored: VOC

Lower Permit Limit: 90 percent degree of air cleaning or greater

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 2-20: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029**

Applicable Federal Requirement: 6 NYCRR 212-1.7 (b)

Item 2-20.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP
Process: ACD

Regulated Contaminant(s):
CAS No: 012125-01-8 AMMONIUM FLUORIDE

Item 2-20.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The contaminants listed above have been given an Environmental Rating (ER) of B. Non-criteria contaminants given an ER of B and having an emission rate potential

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(ERP) of less than 10 pounds per hour must demonstrate that ambient impacts of each contaminant at the fence line of the facility are less than the annual (AGC) and short term (SGC) guideline concentrations for the air contaminant, as specified in Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants.

The water recirculation rate in the acid scrubbers will be continuously monitored and recorded whenever the associated process equipment is operating, except during quality assurance and routine maintenance activities. The water recirculation will be maintained at or above the minimum level established during the most recent stack test. If there has been no stack test, the parameter will be the manufacturer's recommended value. The current limit is 520 gallons per minute.

Parameter Monitored: FLOW RATE

Lower Permit Limit: 520 gallons per minute

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 24-HR ROLLING AVG., CALCULATED EA. HR AS THE AVG OF THE PAST 24 OPERATING HRS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 2-21: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement: 6 NYCRR 212-1.7 (b)

Item 2-21.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: ACD

Regulated Contaminant(s):

CAS No: 007783-54-2 NITROGEN TRIFLUORIDE

Item 2-21.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The contaminants listed above have been given an Environmental Rating (ER) of B. Non-criteria contaminants

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given an ER of B and having an emission rate potential (ERP) of less than 1 pounds per hour must demonstrate that ambient impacts of each contaminant at the fence line of the facility are less than the annual (AGC) and short term (SGC) guideline concentrations for the air contaminant, as specified in Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants.

Records of material usage will be maintained to verify emissions of listed contaminants to ensure impacts at fence line. Records will be kept in a format acceptable to the department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 2-22: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement: 6 NYCRR 212-1.7 (b)

Item 2-22.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: ACD

Regulated Contaminant(s):

CAS No: 012125-01-8 AMMONIUM FLUORIDE

Item 2-22.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The contaminants listed above have been given an Environmental Rating (ER) of B. Non-criteria contaminants given an ER of B and having an emission rate potential (ERP) of less than 10 pounds per hour must demonstrate that ambient impacts of each contaminant at the fence line of the facility are less than the annual (AGC) and short term (SGC) guideline concentrations for the air contaminant, as specified in Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants.

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The pH in the acid scrubbers will be continuously monitored and recorded whenever the associated process equipment is operating, except during quality assurance and routine maintenance activities. The pH will be maintained at or above the minimum level established during the most recent stack test. If there has been no stack test, the parameter will be the manufacturer's recommended value. The current limit is a pH of 6.5-9.5.

Parameter Monitored: PH

Lower Permit Limit: 6.5 pH (STANDARD) units

Upper Permit Limit: 9.5 pH (STANDARD) units

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 24-HR ROLLING AVG., CALCULATED EA. HR AS THE AVG OF THE PAST 24 OPERATING HRS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 2-23: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 212-2.1 (b)

Item 2-23.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: ACD

Regulated Contaminant(s):

CAS No: 000075-73-0 TETRAFLUORO METHANE

Item 2-23.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Tetrafluoro methane has been given an Environmental Rating (ER) of B. Non-criteria contaminants given an ER of B and having an emission rate potential (ERP) of less than 10 pounds per hour must demonstrate that ambient impacts of each contaminant at the fence line of the facility are less than the annual (AGC) and short term (SGC) guideline concentrations for the air contaminant. The facility has demonstrated acceptable impacts when hydrogen fluoride emissions remain less than the permit limit below.

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The facility owner or operator shall conduct a performance test on one of the representative acid gas scrubbers within 180 days of when the first product is qualified, within 180 days of maximum production, and additionally at the Department's discretion. Compliance with the mass emission limit identified below will be determined by multiplying the emission rate Tetrafluoro methane, from the representative performance testing, times the number of acid scrubbers in operation at the facility.

Upper Permit Limit: 1.92 pounds per hour

Reference Test Method: Method 26A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 2-24: Compliance Demonstration

Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 212-2.1 (b)**Item 2-24.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: ACD

Regulated Contaminant(s):

CAS No: 007664-39-3 HYDROGEN FLUORIDE

Item 2-24.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Hydrogen fluoride has been given an Environmental Rating (ER) of B. Non-criteria contaminants given an ER of B and having an emission rate potential (ERP) of less than 10 pounds per hour must demonstrate that ambient impacts of each contaminant at the fence line of the facility are less than the annual (AGC) and short term (SGC) guideline concentrations for the air contaminant. The facility has demonstrated acceptable impacts when hydrogen fluoride emissions remain less than the permit limit below.

The facility owner or operator shall conduct a performance test on one of the representative acid gas scrubbers within 180 days of when the first product is qualified, within 180 days of maximum production, and additionally

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at the Department's discretion. Compliance with the mass emission limit identified below will be determined by multiplying the emission rate Hydrogen fluoride, from the representative performance testing, times the number of acid scrubbers in operation at the facility.

During the performance test the facility will establish a water recirculation flow rate, and pH for the scrubbers that was required to meet the mass emission limit below. Compliance with this requirement shall allow the facility to demonstrate compliance with applicable requirements of this Part.

Upper Permit Limit: .19 pounds per hour

Reference Test Method: Method 26A

Monitoring Frequency: ONCE EVERY TEN YEARS

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 2-25: Compliance Demonstration

Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement:6 NYCRR 212-1.7 (b)**Item 2-25.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: CAU

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 2-25.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Ammonia has been given and Environmental Rating (ER) of C Non-criteria contaminants given an ER of C and having an emission rate potential (ERP) of equal to or greater than 10 pounds per hour must demonstrate a minimum of 75% reduction of the contaminant, as specified in Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants.

The water recirculation rate in the caustic scrubbers will be continuously monitored and recorded whenever the

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associated process equipment is operating, except during quality assurance and maintenance activities. The water recirculation will be maintained at or above the minimum level established during the most recent stack test. If there has been no stack test, the parameter will be the manufacturer's recommended value. The current limit is 100 gallons per minute.

Parameter Monitored: FLOW RATE

Lower Permit Limit: 100 gallons per minute

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 24-HR ROLLING AVG., CALCULATED EA. HR AS THE AVG OF THE PAST 24 OPERATING HRS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 2-26: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement: 6 NYCRR 212-1.7 (b)

Item 2-26.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: CAU

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 2-26.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Ammonia has been given an Environmental Rating (ER) of C. Non-criteria contaminants given an ER of C and having an emission rate potential (ERP) of equal to or greater than 10 pounds per hour must demonstrate a minimum of 75% reduction of the contaminant, as specified in Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants.

The pH in the caustic scrubbers will be continuously monitored and recorded whenever the associated process equipment is operating, except during quality assurance and routine maintenance activities. The pH will be

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maintained at or below the maximum level established during the most recent stack test. If there has been no stack test, the parameter will be the manufacturer's recommended value. The current limit is a pH of between 3-5.5.

Parameter Monitored: PH

Lower Permit Limit: 3 pH (STANDARD) units

Upper Permit Limit: 5.5 pH (STANDARD) units

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 24-HR ROLLING AVG., CALCULATED EA. HR AS THE AVG OF THE PAST 24 OPERATING HRS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 2-27: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement: 6 NYCRR 212-2.1 (b)**Replaces Condition(s) 43****Item 2-27.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: CAU

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 2-27.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Ammonia has been given and Environmental Rating (ER) of C. Non-criteria contaminants given an ER of C and having an emission rate potential (ERP) of equal to or greater than 10 pounds per hour must demonstrate a minimum of 75% reduction of the contaminant, as specified in Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants.

The Facility owner or operator shall conduct a performance test on one of the representative caustic gas scrubbers within 180 days of when the first product is qualified, within 180 days of maximum production, and additionally at the Department's discretion. The performance testing

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will verify the removal efficiency of ammonia by the caustic gas scrubber.

During the performance test the facility will establish a water recirculation flow rate, and pH for the scrubbers that was required to maintain a 75% reduction in emissions of Ammonia. Compliance with this requirement shall allow the facility to demonstrate compliance with applicable requirements of this Part.

Lower Permit Limit: 75 percent

Reference Test Method: Method 320

Monitoring Frequency: ONCE EVERY TEN YEARS

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 2-28: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement: 6 NYCRR 212-1.7 (b)

Item 2-28.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: SOX

Regulated Contaminant(s):

CAS No: 000067-64-1 DIMETHYL KETONE

Item 2-28.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Dimethyl Ketone has been given an Environmental Rating (ER) of C. Non-criteria contaminants given an ER of C and having an emission rate potential (ERP) of equal to or less than 10 pounds per hour must demonstrate that ambient impacts of each contaminant at the fence line of the facility are less than the annual (AGC) and short term (SGC) guideline concentrations for the air contaminant.

The thermal oxidizer combustion chamber will be continuously monitored and recorded whenever the associated process equipment is operating, except during quality assurance and routine maintenance activities. The combustion chamber temperature will be maintained at or above the minimum temperature established during the most

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recent stack test. If there has been no stack test, the parameter will be the manufacturer's recommended value. The current lower limit is a temperature of 1375 degrees F.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1375 degrees Fahrenheit

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 24-HR ROLLING AVG., CALCULATED EA. HR AS THE AVG OF THE PAST 24 OPERATING HRS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 2-29: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement: 6 NYCRR 212-1.7 (b)

Item 2-29.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: SOX

Regulated Contaminant(s):

CAS No: 000120-92-3 CYCLOPENTANONE

Item 2-29.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The listed contaminants have been given an Environmental Rating (ER) of B. Non-criteria contaminants given an ER of B and having an emission rate potential (ERP) of less than 10 pounds per hour must demonstrate that ambient impacts of each contaminant at the fence line of the facility are less than the annual (AGC) and short term (SGC) guideline concentrations for the air contaminant.

The rotor wheel concentrator oxidizer combustion chamber will be continuously monitored and recorded whenever the associated process equipment is operating, except during quality assurance and routine maintenance activities. The combustion chamber temperature will be maintained at or above the minimum temperature established during the most recent stack test. If there has been no stack test, the

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parameter will be the manufacturer's recommended value.
The current lower limit is a temperature of 1375 degrees
F.

Parameter Monitored: TEMPERATURE
Lower Permit Limit: 1375 degrees Fahrenheit
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: 24-HR ROLLING AVG., CALCULATED EA. HR
AS THE AVG OF THE PAST 24 OPERATING
HRS
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2021.
Subsequent reports are due every 6 calendar month(s).

Condition 2-30: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement: 6 NYCRR 212-2.1 (b)

Item 2-30.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP
Process: SOX

Regulated Contaminant(s):
CAS No: 000120-92-3 CYCLOPENTANONE

Item 2-30.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Cyclopentanone has been given an Environmental Rating (ER) of B. Non-criteria contaminants given an ER of B and having an emission rate potential (ERP) of less than 10 pounds per hour must demonstrate that ambient impacts of each contaminant at the fence line of the facility are less than the annual (AGC) and short term (SGC) guideline concentrations for the air contaminant. The facility has demonstrated acceptable impacts when cyclopentanone emissions remain less than the permit limit below.

The facility owner or operator shall conduct a performance test on one of the representative thermal oxidizers within 180 days of when the first product is qualified, within 180 days of when facility reaches maximum production, and additionally at the Department's discretion. Compliance with mass emission limit identified below will be determined by multiplying the

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emission rate from the representative performance testing, times the number of oxidizers in operation at the facility.

During the performance test, the facility will establish the operating temperature for the thermal oxidizers that are required. Compliance with this requirement shall allow the facility to demonstrate compliance with applicable requirements of this Part.

Upper Permit Limit: .054 pounds per hour

Reference Test Method: Method 25A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 2-31: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable Federal Requirement: 6 NYCRR 212-2.1 (b)

Item 2-31.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: SOX

Regulated Contaminant(s):

CAS No: 000067-64-1 DIMETHYL KETONE

Item 2-31.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Dimethyl Ketone has been given an Environmental Rating (ER) of C Non-criteria contaminants given an ER of C and having an emission rate potential (ERP) of less than 10 pounds per hour must demonstrate that ambient impacts of each contaminant at the fence line of the facility are less than the annual (AGC) and short term (SGC) guideline concentrations for the air contaminant. The facility has demonstrated acceptable impacts when dimethyl ketone remain less than the permit limit below.

The facility owner or operator shall conduct a performance test on one of the representative thermal oxidizers within 180 days of when first product is qualified, within 180 days of when facility reaches maximum production, and additionally at the Department's discretion. Compliance with mass emission limit identified below will be

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determined by multiplying the emission rate from the representative performance testing, times the number of oxidizers in operation at the facility.

During the performance test, the facility will establish the operating temperature for the thermal oxidizers that are required. Compliance with this requirement shall allow the facility to demonstrate compliance with applicable requirements of this Part.

Upper Permit Limit: .049 pounds per hour

Reference Test Method: Method 25A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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STATE ONLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined in 6 NYCRR subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) an emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;

(2) the equipment at the facility was being properly operated and maintained;

(3) during the period of the emergency the facility owner or operator took all reasonable steps to minimize the levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) the facility owner or operator notified the department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or malfunction provision contained in any applicable requirement.

Item B: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance

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with 6 NYCRR Part 616 - Public Access to Records.
Facility owners and/or operators must submit the records
required to comply with the request within sixty working
days of written notification by the Department.

Item C: **General Provisions for State Enforceable Permit Terms and
Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources
shall operate and maintain all emission units and any
required emission control devices in compliance with all
applicable Parts of this Chapter and existing laws, and
shall operate the facility in accordance with all
criteria, emission limits, terms, conditions, and
standards in this permit. Failure of such person to
properly operate and maintain the effectiveness of such
emission units and emission control devices may be
sufficient reason for the Department to revoke or deny a
permit.

The owner or operator of the permitted facility must
maintain all required records on-site for a period of five
years and make them available to representatives of the
Department upon request. Department representatives must
be granted access to any facility regulated by this
Subpart, during normal operating hours, for the purpose of
determining compliance with this and any other state and
federal air pollution control requirements, regulations or
law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 49: Contaminant List

Effective between the dates of 07/24/2019 and 07/23/2029

Applicable State Requirement: ECL 19-0301

Item 49.1:

Emissions of the following contaminants are subject to contaminant specific requirements in
this permit (emission limits, control requirements or compliance monitoring conditions).

CAS No: 000067-64-1
Name: DIMETHYL KETONE

CAS No: 000075-73-0
Name: TETRAFLUORO METHANE

CAS No: 000120-92-3
Name: CYCLOPENTANONE

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CAS No: 007664-39-3
Name: HYDROGEN FLUORIDE

CAS No: 007664-41-7
Name: AMMONIA

CAS No: 007783-54-2
Name: NITROGEN TRIFLUORIDE

CAS No: 007786-81-4
Name: SULFURIC ACID, NICKEL(2+) SALT (1:1)

CAS No: 012125-01-8
Name: AMMONIUM FLUORIDE

CAS No: 068188-85-2
Name: FLUORIDES

CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 0NY998-00-0
Name: VOC

Condition 3-5: Malfunctions and Start-up/Shutdown Activities
Effective between the dates of 04/29/2022 and 07/23/2029

Applicable State Requirement:6 NYCRR 201-1.4

Item 3-5.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. When requested by

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the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 2-32: Malfunctions and Start-up/Shutdown Activities
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable State Requirement: 6 NYCRR 201-1.4

Item 2-32.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground

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level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 51: Emission Unit Definition
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 51.1(From Mod 3):

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-COMBS

Emission Unit Description:

This Emission unit consists of four (4) boilers that have a maximum rating of 37.5 MMBtu/hr, each and will fire exclusively natural gas.

Building(s): CUB

Item 51.2(From Mod 2):

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-FABOP

Emission Unit Description:

This emission unit consists of the various process operations associate with semiconductor manufacturing at the facility. Emissions are controlled by acid gas scrubbers, caustic gas scrubbers, and thermal oxidizers.

Building(s): FAB

Condition 52: Renewal deadlines for state facility permits
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable State Requirement:6 NYCRR 201-5.2 (c)

Item 52.1:

The owner or operator of a facility having an issued state facility permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Condition 2-33: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable State Requirement:6 NYCRR 201-5.3 (c)

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Item 2-33.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 2-33.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall maintain the following records to ensure compliance with the facility's state facility permit

- stack test reports
- operational parameters of control equipment
- maintenance records on control equipment
- quantities of material used in all processes on a 12 month rolling total.
- hours of operation and amount of gas used in the boilers on a 12 month rolling basis.
- method 9 results
- records associated with the operational flexibility provision in the permit.
- diesel fuel analysis results or diesel fuel certificates of analysis
- hours of operation of emergency generator annually
- maintenance records for emergency generator
- modeling analysis

The facility will maintain all records in a format acceptable to the department, and for a minimum of 5 years on-site. These records would be made available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 53: Compliance Demonstration
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable State Requirement:6 NYCRR 201-5.3 (c)

Item 53.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 53.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall

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be submitted to the Regional Air Pollution Control
Engineer (RAPCE) at the following address:

Division of Air Resources
NYS Dept. of Environmental Conservation
Region 6
State Office Building
317 Washington Ave.
Watertown, NY 13601

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 55: Air pollution prohibited
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable State Requirement:6 NYCRR 211.1

Item 55.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 56: Idling of Diesel Trucks Limited
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable State Requirement:6 NYCRR 217-3.2

Item 56.1:

No person who owns, operates or leases a bus or truck, the motive power for which is provided by a diesel engine or who owns, leases or occupies land and has the actual or apparent dominion or control over the operation of a bus or truck present on such land, the motive power for which said bus or truck is provided by a diesel engine, shall allow or permit the diesel engine of such bus or truck to idle for more than five consecutive minutes when the bus or truck is not in motion, except as otherwise permitted by 6 NYCRR Subpart 217-3.3.

Condition 2-35: Compliance Demonstration
Effective between the dates of 06/17/2021 and 07/23/2029

Applicable State Requirement:6 NYCRR 257-4.2

Item 2-35.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 068188-85-2 FLUORIDES

Item 2-35.2:

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Compliance Demonstration shall include the following monitoring:

Monitoring Type: AMBIENT AIR MONITORING

Monitoring Description:

(a) Total fluorides, parts per million (ppm), dry weight basis (as F) in and on forage for consumption by grazing ruminants. Average concentration shall be less than the following in all levels:

- (1) For growing season (not to exceed six consecutive months) — 40 ppm
- (2) For any 60 day period — 60 ppm
- (3) For any 30 day period — 80 ppm

(b) Gaseous fluorides in air (parts per million parts of air) as F—all levels. (25 degrees Centigrade, 760 min. Hg.)

- (1) 12 hour averages to be less than 4.5 ppb (3.7 µg/m³)
- (2) 24 hour averages to be less than 3.5 ppb (2.85 µg/m³)
- (3) 1 week averages to be less than 2.0 ppb (1.65 µg/m³)
- (4) 1 month averages to be less than 1.0 ppb (0.8 µg/m³)

As per 6 NYCRR 257-4.3, total fluorides in and on forage shall be determined by methods acceptable to the commissioner and gaseous fluorides in air will be collected and analyzed by methods acceptable to the commissioner. Compliance with this standard has been demonstrated for the facility through air dispersion modeling.

Upper Permit Limit: .8 parts per billion by volume (dry, corrected to 15% O₂)

Reference Test Method: AERMOD

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

****** Emission Unit Level ******

**Condition 58: Emission Point Definition By Emission Unit
Effective between the dates of 07/24/2019 and 07/23/2029**

Applicable State Requirement:6 NYCRR Subpart 201-5

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Item 58.1(From Mod 3):

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-COMBS

Emission Point: 00027
 Height (ft.): 67 Diameter (in.): 64
 NYTMN (km.): 4776.599 NYTME (km.): 480.576 Building: CUB

Emission Point: 00028
 Height (ft.): 67 Diameter (in.): 64
 NYTMN (km.): 4776.593 NYTME (km.): 480.572 Building: CUB

Emission Point: 00029
 Height (ft.): 67 Diameter (in.): 64
 NYTMN (km.): 4776.588 NYTME (km.): 480.569 Building: CUB

Emission Point: 00030
 Height (ft.): 67 Diameter (in.): 64
 NYTMN (km.): 4776.583 NYTME (km.): 480.566 Building: CUB

Item 58.2(From Mod 2):

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-FABOP

Emission Point: 00001
 Height (ft.): 116 Diameter (in.): 52
 NYTMN (km.): 4776.769 NYTME (km.): 480.56 Building: FAB

Emission Point: 00002
 Height (ft.): 116 Diameter (in.): 52
 NYTMN (km.): 4776.761 NYTME (km.): 480.572 Building: FAB

Emission Point: 00003
 Height (ft.): 116 Diameter (in.): 52
 NYTMN (km.): 4776.755 NYTME (km.): 480.583 Building: FAB

Emission Point: 00004
 Height (ft.): 116 Diameter (in.): 52
 NYTMN (km.): 4776.738 NYTME (km.): 480.612 Building: FAB

Emission Point: 00005
 Height (ft.): 116 Diameter (in.): 45
 NYTMN (km.): 4776.749 NYTME (km.): 480.596 Building: FAB

Emission Point: 00006
 Height (ft.): 116 Diameter (in.): 45
 NYTMN (km.): 4776.747 NYTME (km.): 480.599 Building: FAB

Emission Point: 00007

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Height (ft.): 116	Diameter (in.): 45	
NYTMN (km.): 4776.745	NYTME (km.): 480.603	Building: FAB
Emission Point: 00008		
Height (ft.): 116	Diameter (in.): 14	
NYTMN (km.): 4776.781	NYTME (km.): 480.549	Building: FAB
Emission Point: 00009		
Height (ft.): 116	Diameter (in.): 14	
NYTMN (km.): 4776.766	NYTME (km.): 480.574	Building: FAB
Emission Point: 00013		
Height (ft.): 116	Diameter (in.): 23	
NYTMN (km.): 4776.748	NYTME (km.): 480.594	Building: FAB
Emission Point: 00014		
Height (ft.): 116	Diameter (in.): 23	
NYTMN (km.): 4776.747	NYTME (km.): 480.597	Building: FAB

Condition 59: Process Definition By Emission Unit
Effective between the dates of 07/24/2019 and 07/23/2029

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 59.1(From Mod 3):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-COMBS
 Process: GAS Source Classification Code: 1-02-006-02
 Process Description:
 This process consists the boilers which will fire exclusively natural gas.

Emission Source/Control: BLR-1 - Combustion
 Design Capacity: 37.5 million Btu per hour

Emission Source/Control: BLR-2 - Combustion
 Design Capacity: 37.5 million Btu per hour

Emission Source/Control: BLR-3 - Combustion
 Design Capacity: 37.5 million Btu per hour

Emission Source/Control: BLR-4 - Combustion
 Design Capacity: 37.5 million Btu per hour

Item 59.2(From Mod 2):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-FABOP
 Process: ACD Source Classification Code: 3-13-065-00
 Process Description:
 This process consists of Photolithography, Wet Etching,

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Dry Etching, Plating, Thermal processing, Implant, Wafer board, Dielectric Disposition, and Cleaning (at various stages) using acidic materials. The emissions from these sources are vented to the acid gas scrubbers used for emission control.

Emission Source/Control: AEX01 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AEX02 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AEX03 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AEX04 - Control
Control Type: WET SCRUBBER

Emission Source/Control: CLEA1 - Process

Emission Source/Control: DDE01 - Process

Emission Source/Control: ETCH1 - Process

Emission Source/Control: IMP01 - Process

Emission Source/Control: PLT01 - Process

Emission Source/Control: TPR01 - Process

Item 59.3(From Mod 2):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-FABOP

Process: CAU

Source Classification Code: 3-13-065-00

Process Description:

This process consists of Photolithography, Wet Etching, Dry Etching, Plating, Thermal processing, Implant, Wafer board, Dielectric Disposition, and Cleaning (at various stages) using caustic materials. The emissions from these sources are vented to the caustic gas scrubber used for emission control.

Emission Source/Control: CEX01 - Control
Control Type: WET SCRUBBER

Emission Source/Control: CEX02 - Control

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Control Type: WET SCRUBBER

Emission Source/Control: CLEA1 - Process

Emission Source/Control: ETCH1 - Process

Emission Source/Control: PL001 - Process

Item 59.4(From Mod 2):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-FABOP

Process: SOX

Source Classification Code: 3-13-065-00

Process Description:

This process consists of Photolithography, Wet Etching, Dry Etching, Plating, Thermal processing, Implant, Wafer board, Dielectric Disposition, and Cleaning (at various stages) using VOC materials. The emissions from these sources are vented to the rotor wheel concentrator oxidizers used for VOC emission control.

Emission Source/Control: SOX01 - Control

Control Type: THERMAL OXIDATION

Emission Source/Control: SOX02 - Control

Control Type: THERMAL OXIDATION

Emission Source/Control: CLEA1 - Process

Emission Source/Control: ETCH1 - Process

Emission Source/Control: PL001 - Process

Emission Source/Control: WBD01 - Process

Condition 2-36: Compliance Demonstration

Effective between the dates of 06/17/2021 and 07/23/2029

Applicable State Requirement:6 NYCRR 212-2.1 (a)

Item 2-36.1:

The Compliance Demonstration activity will be performed for:

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Facility DEC ID: 6304400126

Emission Unit: 1-FABOP
 Process: ACD

Regulated Contaminant(s):
 CAS No: 007786-81-4 SULFURIC ACID, NICKEL(2+) SALT (1:1)

Item 2-36.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The owner or operator complies with this subpart by demonstrating actual annual emissions of HTAC contaminants do not exceed the thresholds specified in 6NYCRR Part 212-2.2 Table 2. On an annual basis the facility must calculate actual annual emissions of the HTAC compounds and certify that emissions remain less than the thresholds specified in 6NYCRR 212-2.2 Table 2.

In the event that the facility exceeds the HTAC contaminant thresholds specified in 6NYCRR 212-2.2 Table 2, the facility must within 90 days either: (1) conduct testing in order to determine site specific emissions factors for affected HTAC contaminants and recalculate HTAC contaminant emissions or (2) demonstrate compliance with the control requirements specified in subpart 6NYCRR 212-2.3 Table 4.

Parameter Monitored: SULFURIC ACID, NICKEL(2+) SALT (1:1)
 Upper Permit Limit: .00114 pounds per hour
 Monitoring Frequency: ANNUALLY
 Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2022.
 Subsequent reports are due every 12 calendar month(s).

Condition 2-37: Compliance Demonstration
 Effective between the dates of 06/17/2021 and 07/23/2029

Applicable State Requirement: 6 NYCRR 212-2.1 (a)

Item 2-37.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP
 Process: ACD

Regulated Contaminant(s):

Permit ID: 6-3044-00126/00002

Facility DEC ID: 6304400126

CAS No: 007786-81-4 SULFURIC ACID, NICKEL(2+) SALT (1:1)

Item 2-37.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator complies with this subpart by demonstrating actual annual emissions of HTAC contaminants do not exceed the thresholds specified in 6NYCRR Part 212-2.2 Table 2. On an annual basis the facility must calculate actual annual emissions of the HTAC compounds and certify that emissions remain less than the thresholds specified in 6NYCRR 212-2.2 Table 2.

In the event that the facility exceeds the HTAC contaminant thresholds specified in 6NYCRR 212-2.2 Table 2, the facility must within 90 days either: (1) conduct testing in order to determine site specific emissions factors for affected HTAC contaminants and recalculate HTAC contaminant emissions or (2) demonstrate compliance with the control requirements specified in subpart 6NYCRR 212-2.3 Table 4.

In the event the facility elects to perform testing to determine site specific emissions factors, a protocol must be submitted to the Department no later than 30 days prior to testing and will be subject to Department review.

The facility owner or operator shall conduct a performance test on one of the representative emission points. Compliance with the mass emission limit identified below will be determined by multiplying the emission rate for each contaminant, from the representative performance testing, times the number of similar control devices in operation at the facility.

Upper Permit Limit: .00114 pounds per hour

Reference Test Method: Method 320

Monitoring Frequency: ONCE EVERY TEN YEARS

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Permit ID: 6-3044-00126/00002

Facility DEC ID: 6304400126