



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 6-3044-00126/00001
Effective Date: 09/13/2016 Expiration Date: 09/12/2026

Permit Issued To:ams USA Production Inc.
Tobelbaderstrasse 30
Unterpremstatten

Contact: Karl Mueller
Tobelbadestrasse 30
Unterpremstatten

(043) 313-6500

Facility: ams USA Production Inc.
5775 Marcy-SUNY Pkwy
Marcy, NY 13403

Description:
AMS proposes to manufacture high-performance analog semiconductors at a facility to be constructed at the Marcy Nanocenter. The facility is expected to have a gradual build-up of production volume between 2017 and 2019, eventually manufacturing 155,000, 12-inch wafers a year.

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: LAWRENCE R AMBEAU
NYSDEC - REGION 6
317 WASHINGTON ST
WATERTOWN, NY 13601

Authorized Signature: _____ Date: ____ / ____ / ____



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.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
- Applications for permit renewals, modifications and transfers
- Permit modifications, suspensions or revocations by the Department

Facility Level

- Submission of application for permit modification or renewal-REGION 6 SUBOFFICE - UTICA



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.



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

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Permit Under the Environmental Conservation Law (ECL)

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY
PERMIT**

IDENTIFICATION INFORMATION

Permit Issued To:ams USA Production Inc.
Tobelbaderstrasse 30
Unterpremstatten
8141

Facility: ams USA Production Inc.
5775 Marcy-SUNY Pkwy
Marcy, NY 13403

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

Permit Effective Date: 09/13/2016

Permit Expiration Date: 09/12/2026



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 202-1.1: Required Emissions Tests
- 2 6 NYCRR 201-7.1: Facility Permissible Emissions
- *3 6 NYCRR 201-7.1: Capping Monitoring Condition
- *4 6 NYCRR 201-7.1: Capping Monitoring Condition
- 5 6 NYCRR 202-1.2: Notification
- 6 6 NYCRR 202-1.3: Acceptable procedures
- 7 6 NYCRR 202-1.3: Acceptable procedures - Stack test report submittal
- 8 6 NYCRR 202-1.3: Alternate test methods
- 9 6 NYCRR 202-1.4: Separate emission test by the commissioner
- 10 6 NYCRR 202-1.5: Prohibitions
- 11 6 NYCRR 211.1: Air pollution prohibited
- 12 6 NYCRR 212-1.6 (a): Compliance Demonstration
- 13 6 NYCRR 228-1.3 (c): Surface Coating- Prohibitions
- 14 40CFR 60.42c(h), NSPS Subpart Dc: Exemption from the averaging period
- 15 40CFR 60.42c(i), NSPS Subpart Dc: Enforceability
- 16 40CFR 60.43c(c), NSPS Subpart Dc: Compliance Demonstration
- 17 40CFR 60.44c(h), NSPS Subpart Dc: Compliance Demonstration
- 18 40CFR 60.46c(e), NSPS Subpart Dc: Exemption from sulfur dioxide monitoring requirements
- 19 40CFR 60.48c(c), NSPS Subpart Dc: Compliance Demonstration
- 20 40CFR 60.48c(d), NSPS Subpart Dc: Compliance Demonstration
- 21 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Demonstration
- 22 40CFR 60.48c(g)(3), NSPS Subpart Dc: Reporting and Recordkeeping Requirements
- 23 40CFR 60.48c(i), NSPS Subpart Dc: Compliance Demonstration
- 24 40CFR 60.48c(j), NSPS Subpart Dc: Compliance Demonstration

Emission Unit Level

EU=1-COMBS

- 25 6 NYCRR 227-1.3 (a): Compliance Demonstration
- 26 40CFR 60.42c(d), NSPS Subpart Dc: Compliance Demonstration
- 27 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Demonstration

EU=1-COMBS,Proc=OIL

- 28 6 NYCRR 225-1.2: Compliance Demonstration
- 29 40CFR 60.43c(d), NSPS Subpart Dc: Enforceability of particulate matter and opacity standards.
- 30 40CFR 60.43c(e)(4), NSPS Subpart Dc: PM limit for facilities that burn only oil with less than 0.50% sulfur
- 31 40CFR 60.45c(a), NSPS Subpart Dc: Compliance Demonstration
- 32 40CFR 60.47c(c), NSPS Subpart Dc: Emissions monitoring

EU=1-FABOP

- 33 6 NYCRR 228-1.3 (a): Compliance Demonstration
- 34 6 NYCRR 228-1.3 (b) (1): Compliance Demonstration
- 35 6 NYCRR 228-1.3 (d): Compliance Demonstration



EU=1-FABOP,Proc=ACD

- 36 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 37 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 38 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 39 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 40 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 41 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 42 6 NYCRR 212-2.1 (b): Compliance Demonstration
- 43 6 NYCRR 212-2.1 (b): Compliance Demonstration
- 44 6 NYCRR 212-2.1 (b): Compliance Demonstration
- 45 6 NYCRR 212-2.1 (b): Compliance Demonstration
- 46 6 NYCRR 212-2.1 (b): Compliance Demonstration
- 47 6 NYCRR 212-2.1 (b): Compliance Demonstration

EU=1-FABOP,Proc=CAU

- 48 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 49 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 50 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 51 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 52 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 53 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 54 6 NYCRR 212-2.1 (b): Compliance Demonstration
- 55 6 NYCRR 212-2.1 (b): Compliance Demonstration
- 56 6 NYCRR 212-2.1 (b): Compliance Demonstration
- 57 6 NYCRR 212-2.1 (b): Compliance Demonstration

EU=1-FABOP,Proc=OXD

- 58 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 59 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 60 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 61 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 62 6 NYCRR 212-2.1 (b): Compliance Demonstration
- 63 6 NYCRR 212-2.1 (b): Compliance Demonstration
- 64 6 NYCRR 212-2.1 (b): Compliance Demonstration
- 65 6 NYCRR 212-2.1 (b): Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 66 ECL 19-0301: Contaminant List
- 67 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 68 6 NYCRR Subpart 201-5: Emission Unit Definition
- 69 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 70 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 71 6 NYCRR 201-5.4 (e): Compliance Demonstration
- 72 6 NYCRR 211.2: Visible Emissions Limited
- 73 6 NYCRR 217-3.2: Idling of Diesel Trucks Limited

Emission Unit Level

- 74 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 75 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS

****** 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,



required to operate such device effectively.

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

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

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



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)

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR 201-6.1 (a)

Item 3.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 3.3:

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.

Item 3.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 3.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 3.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The facility is capping oxides of nitrogen emissions (NOx) to 95 tons per year on a 12-month rolling basis. Monthly records of fuel consumption of natural gas and #2 fuel oil will be maintained. Monthly NOx emissions will be calculated using published emission factors or similar information provided by the manufacturer, and using the following equation:



New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126

$$\text{NOx}_e = [(\text{EFNOx})\text{NG} * \text{NGu}] + [(\text{EFNOx})\#2\text{oil} * \#2\text{oilu}]$$

Monthly records of fuel usage shall be maintained in a format acceptable to the department, and shall be retained on-site for 5 years.

Parameter Monitored: FUEL

Upper Permit Limit: 95 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 4: Capping Monitoring Condition
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 4.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR 201-6.1 (a)

Item 4.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 4.3:

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.

Item 4.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 4.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



the Act.

Item 4.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The facility is capping carbon monoxide(CO) emissions to 95 tons per year on a 12-month rolling basis. Monthly records of fuel consumption of natural gas and #2 fuel oil will be maintained. Monthly CO emissions will be calculated using published emission factors or similar information provided by the manufacturer, using the following equation:

$$CO_e = [(EF_{CO})NG * NG_u] + [(EF_{CO})\#2oil * \#2oil_u]$$

Monthly records of fuel usage shall be maintained in a format acceptable to the department, and shall be retained on-site for 5 years.

Parameter Monitored: FUEL

Upper Permit Limit: 95 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 5: Notification

Effective between the dates of 09/13/2016 and 09/12/2026

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 09/13/2016 and 09/12/2026

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 09/13/2016 and 09/12/2026

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: Alternate test methods
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 8.1:

Alternate emission test methods or deviations from acceptable test methods may be utilized if it is impractical to utilize the acceptable test methods or where no applicable test method is available, if prior acceptance of the proposed alternate method is granted by the commissioner.

Condition 9: Separate emission test by the commissioner
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:6 NYCRR 202-1.4

Item 9.1:

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 10: Prohibitions
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:6 NYCRR 202-1.5

Item 10.1:

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 11: Air pollution prohibited
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:6 NYCRR 211.1

Item 11.1:

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



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 12: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 12.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 12.2:

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

Condition 13: Surface Coating- Prohibitions
Effective between the dates of 09/13/2016 and 09/12/2026

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 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



New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126

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 14: Exemption from the averaging period
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:40CFR 60.42c(h), NSPS Subpart Dc

Item 14.1:

Compliance with emission limits and/or fuel oil sulfur limitations shall be based on a certification from the fuel supplier as stated in paragraph 40 CFR 60-Dc.48c(f)(1), (2), or (3) as applicable.

Condition 15: Enforceability
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:40CFR 60.42c(i), NSPS Subpart Dc

Item 15.1:

The sulfur dioxide emission limits, percentage reductions, and fuel oil sulfur limitations shall apply at all times, including periods of startup, shutdown, and malfunction.

Condition 16: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:40CFR 60.43c(c), NSPS Subpart Dc

Item 16.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 16.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

On and after the date on which the initial performance test is completed or required to be completed under 40 CFR 60.8, whichever date comes first, no owner or operator of an affected facility that combusts coal, wood or oil and has a heat input capacity of 30 million BTU per hour or greater shall cause to be discharged into the atmosphere from an affected facility any gases that exhibit greater

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 17: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:40CFR 60.44c(h), NSPS Subpart Dc

Item 17.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-COMBS

Process: OIL

Item 17.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The facility owner and/or operator must demonstrate compliance with the requirements of 40 CFR 60.42c(h). Facilities demonstrating compliance using the fuel supplier certification, for sulfur-in-fuel limitations (based on a percent by weight of sulfur in the fuel), shall submit the certification in accordance with the provisions of 40 CFR 60.48c(f)(1), (2), and (3), as applicable.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.50 percent by weight

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 18: Exemption from sulfur dioxide monitoring requirements
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:40CFR 60.46c(e), NSPS Subpart Dc

Item 18.1:

Facilities subject to paragraphs 40 CFR 60-Dc.42c(h)(1), (2), or (3) showing compliance through vendor certification shall be exempt from section 40 CFR 60-Dc.46c.

Condition 19: Compliance Demonstration

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 19.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 19.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each coal-fired, oil-fired, or wood-fired affected facility subject to the opacity limits under 40 CFR 60.43c(c) shall submit excess emission reports for any excess emissions from the affected facility that occur during the reporting period.

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 1/30/2017.

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

Condition 20: Compliance Demonstration

Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 20.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 20.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall submit semi-annual reports to the Administrator.

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 1/30/2017.

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

Condition 21: Compliance Demonstration

Effective between the dates of 09/13/2016 and 09/12/2026



Applicable Federal Requirement:40CFR 60.48c(f)(1), NSPS Subpart Dc

Item 21.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 21.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Fuel supplier certification shall include the following information for distillate oil:

- i) The name of the oil supplier, and
- ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c. 60-Dc 41c defines distillate oil as fuel that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, A standard Specification for Fuel Oils.
- iii) The sulfur content or maximum sulfur content of the oil.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 22: Reporting and Recordkeeping Requirements
Effective between the dates of 09/13/2016 and 09/12/2026**

Applicable Federal Requirement:40CFR 60.48c(g)(3), NSPS Subpart Dc

Item 22.1:

As an alternative to meeting the requirements of 40 CFR 60.48c(g)(1), the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in 40 CFR 60.42c to use fuel certification to demonstrate compliance with the SO₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

**Condition 23: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026**

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

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Item 23.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 23.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 24: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 24.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 24.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

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

Condition 25: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:6 NYCRR 227-1.3 (a)

Item 25.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBS

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Item 25.2:

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 combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40 CFR 60.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 26: Compliance Demonstration

Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement: 40CFR 60.42c(d), NSPS Subpart Dc

Item 26.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBS

Item 26.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

On or after the date on which the initial performance test is completed or required to be completed under section 60.8 of this part, no owner or operator of an affected facility that combusts oil shall combust oil with a sulfur content in excess of 0.5 percent by weight.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.50 percent by weight

Monitoring Frequency: PER DELIVERY

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 27: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 27.1:

The Compliance Demonstration activity will be performed for:

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 28: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:6 NYCRR 225-1.2

Item 28.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBS

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Process: OIL

Item 28.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of commercial, industrial, or residential emission sources that fire number two heating oil are limited to the purchase of number two heating oil with 15 parts per million sulfur by weight or less.

Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 15 parts per million by weight

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 29: Enforceability of particulate matter and opacity standards.

Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:40CFR 60.43c(d), NSPS Subpart Dc

Item 29.1:

This Condition applies to Emission Unit: 1-COMBS
Process: OIL

Item 29.2:

The particulate matter and opacity standards of section 40 CFR 60-Dc.43c apply at all times, except during periods of startup, shutdown, and malfunction.

Condition 30: PM limit for facilities that burn only oil with less than 0.50% sulfur

Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:40CFR 60.43c(e)(4), NSPS Subpart Dc

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Item 30.1:

This Condition applies to Emission Unit: 1-COMBS
Process: OIL

Item 30.2: On and after the date on which the initial performance test is completed or is required to be completed under 40 CFR 60.8, whichever date comes first, an owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts only oil that contains no more than 0.50 weight percent sulfur or a mixture of 0.50 weight percent sulfur oil with other fuels not subject to a PM standard under 40 CFR 60.43c and not using a post-combustion technology (except a wet scrubber) to reduce PM or SO₂ emissions is not subject to the PM limit in 40 CFR 60 Subpart Dc 60.43c(e).

Condition 31: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:40CFR 60.45c(a), NSPS Subpart Dc

Item 31.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-COMBS
Process: OIL

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 31.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:
initial performance test required by 40CFR60.8

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 32: Emissions monitoring
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable Federal Requirement:40CFR 60.47c(c), NSPS Subpart Dc

Item 32.1:

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



This Condition applies to Emission Unit: 1-COMBS
Process: OIL

Item 32.2: Affected facilities that burn only distillate oil that contains no more than 0.5 weight percent sulfur and/or liquid or gaseous fuels with potential sulfur dioxide emission rates of 26 ng/J (0.06 lb/MMBtu) heat input or less and that do not use a post-combustion technology to reduce SO₂ or PM emissions are not required to operate a CEMS for measuring opacity if they follow the applicable procedures under 40 CFR 60.48c(f).

Condition 33: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

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

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



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 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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 34: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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:



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 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: ANNUALLY (CALENDAR)

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 36: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 36.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP
Process: ACD

Regulated Contaminant(s):

CAS No: 000076-16-4	ETHANE, HEXAFLUORO- FREON 116
CAS No: 000999-97-3	HEXAMETHYLDISILAZANE
CAS No: 007664-93-9	SULFURIC ACID
CAS No: 007664-39-3	HYDROGEN FLUORIDE

Item 36.2:

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.

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 8.5-10.

Parameter Monitored: PH

Lower Permit Limit: 8.5 pH (STANDARD) units

Upper Permit Limit: 10 pH (STANDARD) units

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 37: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 37.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP
Process: ACD

Regulated Contaminant(s):

CAS No: 000076-16-4	ETHANE, HEXAFLUORO- FREON 116
CAS No: 000999-97-3	HEXAMETHYLDISILAZANE
CAS No: 007664-93-9	SULFURIC ACID
CAS No: 007664-39-3	HYDROGEN FLUORIDE

Item 37.2:

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.

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 1000 gallons per minute.

Parameter Monitored: FLOW RATE

Lower Permit Limit: 1000 gallons per minute

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



AS THE AVG OF THE PAST 24 OPERATING
HRS
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 39: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 39.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP
Process: ACD

Regulated Contaminant(s):

CAS No: 010035-10-6	HYDROGEN BROMIDE
CAS No: 007647-01-0	HYDROGEN CHLORIDE

Item 39.2:

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 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, 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 1000 gallons per minute.

Parameter Monitored: FLOW RATE

Lower Permit Limit: 1000 gallons per minute

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 24-HOUR AVERAGE



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

Item 42.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP
Process: ACD

Regulated Contaminant(s):
CAS No: 010035-10-6 HYDROGEN BROMIDE

Item 42.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Hydrogen Bromide 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 hydrogen bromide 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 startup of the facility and additionally at the Department's discretion. 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 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: .359 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

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Condition 43: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 43.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: ACD

Regulated Contaminant(s):

CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 43.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Hydrogen Chloride 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 hydrogen chloride 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 startup of the facility and additionally at the Department's discretion. 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 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: .269 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 44: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 44.1:

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 44.2:

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 startup of the facility and additionally at the Department's discretion. 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 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: .144 pounds per hour
Reference Test Method: Method 26A
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 45: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 45.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: ACD

Regulated Contaminant(s):

CAS No: 000999-97-3 HEXAMETHYLDISILAZANE

Item 45.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Hexamethyldisilazane 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 hexamethyldisilazane 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 startup of the facility and additionally at the Department's discretion. 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 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: .0396 pounds per hour

Reference Test Method: Method 320

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 46: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 46.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP
Process: ACD

Regulated Contaminant(s):
CAS No: 000076-16-4 ETHANE, HEXAFLUORO- FREON 116

Item 46.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Hexafluoroethane 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 hexafluoroethane 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 startup of the facility and additionally at the Department's discretion. 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 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: .0373 pounds per hour
Reference Test Method: Method 320
Monitoring Frequency: SINGLE OCCURRENCE



New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 48: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 48.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: CAU

Regulated Contaminant(s):

CAS No: 007631-86-9 AMORPHOUS SILICA

CAS No: 012125-01-8 AMMONIUM FLUORIDE

Item 48.2:

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.

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 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 4.

Parameter Monitored: PH

Lower Permit Limit: 2.5 pH (STANDARD) units

Upper Permit Limit: 4 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

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 49: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 49.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: CAU

Regulated Contaminant(s):

CAS No: 007631-86-9 AMORPHOUS SILICA

CAS No: 012125-01-8 AMMONIUM FLUORIDE

Item 49.2:

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 and 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 water recirculation rate in the caustic scrubbers will be continuously monitored and recorded whenever the 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 320 gallons per minute.

Parameter Monitored: FLOW RATE

Lower Permit Limit: 320 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: UPON REQUEST BY REGULATORY AGENCY

Condition 50: Compliance Demonstration

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP
Process: CAU

Regulated Contaminant(s):
CAS No: 007664-41-7 AMMONIA

Item 51.2:

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 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 water recirculation rate in the caustic scrubbers will be continuously monitored and recorded whenever the 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 320 gallons per minute.

Parameter Monitored: FLOW RATE

Lower Permit Limit: 320 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: UPON REQUEST BY REGULATORY AGENCY

Condition 52: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 52.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP
Process: CAU

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Regulated Contaminant(s):

CAS No: 001336-21-6 AMMONIUM HYDROXIDE

Item 52.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Ammonium Hydroxide 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 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 4.

Parameter Monitored: PH

Lower Permit Limit: 2.5 pH (STANDARD) units

Upper Permit Limit: 4 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: UPON REQUEST BY REGULATORY AGENCY

Condition 53: Compliance Demonstration

Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 53.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: CAU

Regulated Contaminant(s):

CAS No: 001336-21-6 AMMONIUM HYDROXIDE

Item 53.2:

Compliance Demonstration shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



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

Monitoring Description:

Ammonium Hydroxide 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 water recirculation rate in the caustic scrubbers will be continuously monitored and recorded whenever the 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 320 gallons per minute.

Parameter Monitored: FLOW RATE

Lower Permit Limit: 320 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: UPON REQUEST BY REGULATORY AGENCY

Condition 54: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 54.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: CAU

Regulated Contaminant(s):

CAS No: 012125-01-8 AMMONIUM FLUORIDE

Item 54.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Ammonium Fluoride has been given an Environmental Rating

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



(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 ammonium fluoride emissions remain less than the permit limit below

The facility owner or operator shall conduct a performance test on one of the representative caustic gas scrubbers within 180 days of startup of the facility and additionally at the Department's discretion. 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 caustic 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: .00211 pounds per hour

Reference Test Method: Method 320

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 55: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 55.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: CAU

Regulated Contaminant(s):

CAS No: 007631-86-9 AMORPHOUS SILICA

Item 55.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Silica 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 silica emissions remain less than the permit limit below.

The facility owner or operator shall conduct a performance test on one of the representative caustic gas scrubbers within 180 days of startup of the facility and additionally at the Department's discretion. 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 caustic 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: .0157 pounds per hour

Reference Test Method: Method 320

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 56: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 56.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: CAU

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 56.2:

Compliance Demonstration shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Monitoring Type: INTERMITTENT EMISSION TESTING

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 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 ammonia emissions remain less than the permit limit below.

The facility owner or operator shall conduct a performance test on one of the representative caustic gas scrubbers within 180 days of startup of the facility and additionally at the Department's discretion. 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 caustic 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: .437 pounds per hour

Reference Test Method: Method 320

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 57: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 57.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP
Process: CAU

Regulated Contaminant(s):
CAS No: 001336-21-6 AMMONIUM HYDROXIDE

Item 57.2:

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Ammonium Hydroxide 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 startup of the facility and additionally at the Department's discretion. The performance testing will verify the removal efficiency of ammonium hydroxide 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 Ammonium hydroxide. 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: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 58: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 58.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: OXD

Regulated Contaminant(s):

CAS No: 000075-59-2 METHANAMINIUM

N,N,N-TRIMETHYL-HYDROXIDE

Item 58.2:

Compliance Demonstration shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Monitoring Description:

The contaminants listed above have 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 90% 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 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 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: UPON REQUEST BY REGULATORY AGENCY

Condition 60: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 60.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: OXD

Regulated Contaminant(s):

CAS No: 000067-64-1 DIMETHYL KETONE

Item 60.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Acetone has been given and Environmental Rating (ER) of C. Non-criteria contaminants given an ER of C and having

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



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 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 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: UPON REQUEST BY REGULATORY AGENCY

Condition 61: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 61.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: OXD

Regulated Contaminant(s):

CAS No: 000107-98-2 2-PROPANOL, 1-METHOXY

CAS No: 000067-63-0 ISOPROPYL ALCOHOL

Item 61.2:

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 and Environmental Rating (ER) of B. Non-criteria contaminants given an ER of B and having an emission rate potential (ERP) of equal to or greater than 10 pounds per hour must demonstrate a minimum of 90% reduction of the contaminant,

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



as specified in Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants.

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 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: UPON REQUEST BY REGULATORY AGENCY

Condition 62: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 62.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: OXD

Regulated Contaminant(s):

CAS No: 000075-59-2 METHANAMINIUM

N,N,N-TRIMETHYL-HYDROXIDE

Item 62.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Tetramethyl Ammonium Hydroxide 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

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



impacts when tetramethyl ammonium hydroxide 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 startup of the facility and additionally at the Department's discretion. Compliance with the Part 212 requirements will be demonstrated when the oxidizer achieves the minimum required destruction efficiency (90% or greater VOC) or an outlet concentration of 20 ppmv (as methane) non-methane organic compounds (NMOC) from the representative performance testing.

During the performance test, the facility will establish the operating temperature for the thermal oxidizers that are required to maintain the destruction efficiency (VOC's) or outlet concentration (as methane). Compliance with this requirement shall allow the facility to demonstrate compliance with applicable requirements of this Part.

Lower Permit Limit: 90 percent reduction

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 63: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 63.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: OXD

Regulated Contaminant(s):

CAS No: 000067-64-1 DIMETHYL KETONE

Item 63.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Acetone has been given an Environmental Rating (ER) of C.

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



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 acetone 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 startup of the facility and additionally at the Department's discretion. Compliance with the Part 212 will be demonstrated when the oxidizer achieves the minimum required destruction efficiency (90% or greater VOC) or an outlet concentration of 20 ppmv (as methane) non-methane organic compounds (NMOC) from the representative performance testing.

During the performance test, the facility will establish the operating temperature for the thermal oxidizers that are required to maintain the destruction efficiency (VOC's) or outlet concentration (as methane). Compliance with this requirement shall allow the facility to demonstrate compliance with applicable requirements of this Part.

Lower Permit Limit: 90 percent reduction
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 64: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 64.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP
Process: OXD

Regulated Contaminant(s):
CAS No: 000108-65-6 2-PROPANOL, 1-METHOXY-, ACETATE

Item 64.2:

Compliance Demonstration shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Propylene Glycol Methyl Ether Acetate 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 90% 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 the thermal oxidizers within 180 days of startup of the facility and additionally at the Department's discretion. The performance testing will verify the destruction efficiency (as VOC) for Propylene glycol methyl ether acetate by the thermal oxidizers.

During the performance test the facility will establish the operating temperature for the oxidizers that was required to maintain a 90% destruction efficiency (as VOC) for the emissions of Propylene glycol methyl ether acetate. Compliance with this requirement shall allow the facility to demonstrate compliance with applicable requirements of this Part.

Lower Permit Limit: 90 percent

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 65: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

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

Item 65.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-FABOP

Process: OXD

Regulated Contaminant(s):

CAS No: 000107-98-2 2-PROPANOL, 1-METHOXY

CAS No: 000067-63-0 ISOPROPYL ALCOHOL

Item 65.2:

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The contaminants listed above have been given and Environmental Rating (ER) of B. Non-criteria contaminants given an ER of B and having an emission rate potential (ERP) of equal to or greater than 10 pounds per hour must demonstrate a minimum of 90% 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 the thermal oxidizers within 180 days of startup of the facility and additionally at the Department's discretion. The performance testing will verify the destruction efficiency (as VOC) for each B rated contaminant by the thermal oxidizers.

During the performance test the facility will establish the operating temperature for the themal oxidizers that was required to maintain a 90% destruction efficiency (as VOC) for the emissions of B rated contaminants. Compliance with this requirement shall allow the facility to demonstrate compliance with applicable requirements of this Part.

Lower Permit Limit: 90 percent reduction

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



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 by 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 be demonstrated 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 permitted facility causing the emergency was at the time being properly operated and maintained;

(3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize 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 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 upset 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 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 66: Contaminant List
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable State Requirement:ECL 19-0301

Item 66.1:

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

CAS No: 000067-63-0
Name: ISOPROPYL ALCOHOL

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

CAS No: 000075-59-2
Name: METHANAMINIUM N,N,N-TRIMETHYL-HYDROXIDE

CAS No: 000076-16-4

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Name: ETHANE, HEXAFLUORO- FREON 116

CAS No: 000107-98-2

Name: 2-PROPANOL, 1-METHOXY

CAS No: 000108-65-6

Name: 2-PROPANOL, 1-METHOXY-, ACETATE

CAS No: 000630-08-0

Name: CARBON MONOXIDE

CAS No: 000999-97-3

Name: HEXAMETHYLDISILAZANE

CAS No: 001336-21-6

Name: AMMONIUM HYDROXIDE

CAS No: 007631-86-9

Name: AMORPHOUS SILICA

CAS No: 007647-01-0

Name: HYDROGEN CHLORIDE

CAS No: 007664-39-3

Name: HYDROGEN FLUORIDE

CAS No: 007664-41-7

Name: AMMONIA

CAS No: 007664-93-9

Name: SULFURIC ACID

CAS No: 007784-42-1

Name: ARSINE

CAS No: 010035-10-6

Name: HYDROGEN BROMIDE

CAS No: 012125-01-8

Name: AMMONIUM FLUORIDE

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0

Name: VOC

Condition 67: Malfunctions and start-up/shutdown activities
Effective between the dates of 09/13/2016 and 09/12/2026



Applicable State Requirement:6 NYCRR 201-1.4

Item 67.1:

(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 malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, 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 stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and 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. 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, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the 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 68: Emission Unit Definition
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 68.1:

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

Emission Unit: 1-COMBS

Emission Unit Description:

This emission unit consists of boilers at the facility that are >10 MMBtu/hr. It includes: -three boilers at 54

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



MMBtu/hr each, firing natural gas
-two boilers at 54 MMBtu/hr each, firing natural gas and
#2 fuel oil during natural gas curtailment

Building(s): BGY
MCUB

Item 68.2:

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 associated with semiconductor manufacturing at the facility. Emissions are controlled by acid gas scrubbers, caustic gas scrubbers, and thermal oxidizers.

Building(s): FAB

**Condition 69: Renewal deadlines for state facility permits
Effective between the dates of 09/13/2016 and 09/12/2026**

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

Item 69.1:

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 70: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026**

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

Item 70.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 70.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall 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 71: Compliance Demonstration
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable State Requirement: 6 NYCRR 201-5.4 (e)

Item 71.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 71.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The objective of this condition is to maximize operational flexibility at the facility by building into the State Facility Permit the capability to make certain changes using a protocol. Changes made under an approved protocol are not subject to the permit modification provisions under Part 201-5.4. The protocol described below applies only to changes which do not cause facility emissions to exceed any emission limitation or other condition in the facility's permit, do not cause the facility to become subject to any additional requirements or regulations, and do not seek to establish or modify a federally-enforceable emission cap or limit.

The owner or operator will evaluate the impact of proposed changes on a facility-wide basis for each contaminant affected by the proposed change. The impact of proposed changes on ambient concentrations will be evaluated using the approved air dispersion modeling protocol of November 20, 2015. The predicted ambient concentrations will be compared against the Short-term and Annual Guideline Concentrations (SGCs and AGCs) values as established in DAR-1:

- 1) Case 1: Projected contaminant ambient impact is less than 25% of the SGC/AGC. The owner or operator may proceed with the change without notification to the Department.
- 2) Case 2: Projected contaminant ambient impact is greater than 25% but less than 50% of the SGC/AGC. The owner or operator will include a summary of these changes in the annual compliance report.
- 3) Case 3: Projected contaminant ambient impact is greater than 50% and less than 100% of the SGC/AGC. The owner or



operator shall submit notification to the Department at least 7 days prior to the anticipated start date of the change. The notification will include a summary of the modeling results.

4) Case 4: Any contaminant not currently permitted (not included in the initial ASF application) with a projected ambient impact less than 100% of the SGC/AGC. The owner or operator shall submit notification to the Department at least 7 days prior to the anticipated start date of the change. The notification will include information on the new contaminant and a summary of the modeling results.

In cases where an SGC/AGC or interim SGC/AGC has not been developed for a specific contaminant, NYSDEC de minimis values will be utilized.

For High Toxicity Air Contaminants, as an alternative to the above air dispersion modeling requirement, the facility can elect to maintain actual annual emissions below the Mass Emission Limit in 6 NYCRR 212-2.2 (Table 2). In these instances, the owner or operator will include a summary of the annual emissions in the annual compliance report.

Alterations and maintenance of equipment:

- 1) Exhaust system changes:
 - a) the owner or operator may proceed with maintenance or replacement with in-kind control equipment components.
 - b) Installation or alteration of any permitted air cleaning installations, device or control equipment require the owner or operator to submit written notification to the Department at least 30 days in advance.
- 2) Emission source changes:
 - a) The owner or operator shall maintain a current emission source list. An update to the emission source list shall be included with the annual compliance report.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 72: Visible Emissions Limited
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable State Requirement:6 NYCRR 211.2

Item 72.1:

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 73: Idling of Diesel Trucks Limited
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable State Requirement:6 NYCRR 217-3.2

Item 73.1:

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.

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

Condition 74: Emission Point Definition By Emission Unit
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 74.1:

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

Emission Unit: 1-COMBS

Emission Point: 00001
Height (ft.): 46 Diameter (in.): 26
NYTMN (km.): 4776.61 NYTME (km.): 480.35 Building: MCUB

Emission Point: 00002
Height (ft.): 46 Diameter (in.): 26
NYTMN (km.): 4776.612 NYTME (km.): 480.353 Building: MCUB

Emission Point: 00003
Height (ft.): 46 Diameter (in.): 26
NYTMN (km.): 4776.61 NYTME (km.): 480.358 Building: MCUB

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Emission Point: 00004
Height (ft.): 46 Diameter (in.): 26
NYTMN (km.): 4776.62 NYTME (km.): 480.341 Building: MCUB

Emission Point: 00005
Height (ft.): 46 Diameter (in.): 26
NYTMN (km.): 4776.62 NYTME (km.): 480.356 Building: MCUB

Item 74.2:

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

Emission Unit: 1-FABOP

Emission Point: A0001
Height (ft.): 110 Diameter (in.): 62
NYTMN (km.): 4776.596 NYTME (km.): 480.41 Building: FAB

Emission Point: A0002
Height (ft.): 110 Diameter (in.): 62
NYTMN (km.): 4776.591 NYTME (km.): 480.41 Building: FAB

Emission Point: A0003
Height (ft.): 110 Diameter (in.): 62
NYTMN (km.): 4776.585 NYTME (km.): 480.4 Building: FAB

Emission Point: A0004
Height (ft.): 110 Diameter (in.): 62
NYTMN (km.): 4776.582 NYTME (km.): 480.4 Building: FAB

Emission Point: C0001
Height (ft.): 110 Diameter (in.): 40
NYTMN (km.): 4776.574 NYTME (km.): 480.4 Building: FAB

Emission Point: C0002
Height (ft.): 110 Diameter (in.): 40
NYTMN (km.): 4776.568 NYTME (km.): 480.39 Building: FAB

Emission Point: C0003
Height (ft.): 110 Diameter (in.): 40
NYTMN (km.): 4776.562 NYTME (km.): 480.39 Building: FAB

Emission Point: OX001
Height (ft.): 110 Diameter (in.): 31
NYTMN (km.): 4776.536 NYTME (km.): 480.37 Building: FAB

Emission Point: OX002
Height (ft.): 110 Diameter (in.): 31
NYTMN (km.): 4776.539 NYTME (km.): 480.37 Building: FAB

Emission Point: OX003
Height (ft.): 110 Diameter (in.): 31



NYTMN (km.): 4776.542 NYTME (km.): 480.37 Building: FAB

Condition 75: Process Definition By Emission Unit
Effective between the dates of 09/13/2016 and 09/12/2026

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 75.1:

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 of boilers firing natural gas.

Emission Source/Control: B0001 - Combustion
Design Capacity: 54 million Btu per hour

Emission Source/Control: B0002 - Combustion
Design Capacity: 54 million Btu per hour

Emission Source/Control: B0003 - Combustion
Design Capacity: 54 million Btu per hour

Emission Source/Control: B0004 - Combustion
Design Capacity: 54 million Btu per hour

Emission Source/Control: B0005 - Combustion
Design Capacity: 54 million Btu per hour

Item 75.2:

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

Emission Unit: 1-COMBS
Process: OIL Source Classification Code: 1-02-005-02
Process Description:
This process consists of boilers firing oil during natural gas curtailment.

Emission Source/Control: B0004 - Combustion
Design Capacity: 54 million Btu per hour

Emission Source/Control: B0005 - Combustion
Design Capacity: 54 million Btu per hour

Item 75.3:

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

Emission Unit: 1-FABOP
Process: ACD
Process Description:
This process consists Photoresit operations (application,



exposure, development and stripping), wet-dry etching, doping and layering, Chemical Mechanical Planarization, and cleaning operations for the production of High performance analog semiconductors which use chemicals for which acid gas scrubbers are used for emission control. The photoresit operations currently has up to 8 tools, the wet-dry etching currently has up to 37 tools, the doping and layering currently has up to 24 doping tools and 25 layering tools, the Chemical Mechanical Planarization currently has up to 2 tools, and the cleaning has up to 3 tools.

All of which will be able to be modified under an operational Flexibility provision that is a condition of this permit.

Emission Source/Control: AS001 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS002 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS003 - Control
Control Type: WET SCRUBBER

Emission Source/Control: AS004 - Control
Control Type: WET SCRUBBER

Emission Source/Control: CLEA1 - Process

Emission Source/Control: CMP01 - Process

Emission Source/Control: DPO01 - Process

Emission Source/Control: ETCH1 - Process

Emission Source/Control: PL001 - Process

Emission Source/Control: TFLD1 - Process

Item 75.4:

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

Emission Unit: 1-FABOP

Process: CAU

Process Description:

This process consists Photoresit operations (application, exposure, development and stripping), wet-dry etching, doping and layering, Chemical Mechanical Planarization, and cleaning operations for the production of High performance analog semiconductors which use chemicals for which caustic scrubbers are used for emission control. The photoresit operations currently has up to 8 tools, the

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



wet-dry etching currently has up to 1 tool, the doping and layering currently has up to 0 doping tools and 1 layering tools, the Chemical Mechanical Planarization currently has up to 7 tools, and the cleaning has up to 3 tools. All of which will be able to be modified under an operational flexibility provision that is a condition of this permit.

Emission Source/Control: CS001 - Control
Control Type: WET SCRUBBER

Emission Source/Control: CS002 - Control
Control Type: WET SCRUBBER

Emission Source/Control: CS003 - Control
Control Type: WET SCRUBBER

Emission Source/Control: CLEA1 - Process

Emission Source/Control: CMP01 - Process

Emission Source/Control: DPO01 - Process

Emission Source/Control: ETCH1 - Process

Emission Source/Control: PL001 - Process

Emission Source/Control: TFLD1 - Process

Item 75.5:

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

Emission Unit: 1-FABOP

Process: OXD

Process Description:

This process consists Photoresit operations (application, exposure, development and stripping), wet-dry etching, doping and layering, Chemical Mechanical Planarization, and cleaning operations for the production of High performance analog semiconductors which use chemicals for which acid gas scrubbers are used for emission control. The photoresit operations currently has up to 8 tools, the wet-dry etching currently has up to 9 tools, the doping and layering currently has up to 0 doping tools and 3 layering tools, the Chemical Mechanical Planarization currently has up to 7 tools, and the cleaning has up to 3 tools. All of which will be able to be modified under an operational flexibility provision that is a condition of this permit.

Emission Source/Control: OXD01 - Control

New York State Department of Environmental Conservation

Permit ID: 6-3044-00126/00001

Facility DEC ID: 6304400126



Control Type: THERMAL OXIDATION

Emission Source/Control: OXD02 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: OXD03 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: CLEA1 - Process

Emission Source/Control: CMP01 - Process

Emission Source/Control: DPO01 - Process

Emission Source/Control: ETCH1 - Process

Emission Source/Control: PL001 - Process

Emission Source/Control: TFLD1 - Process

